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U.S. — Congress 52d, 2d sess. (1892-93) Senate

WHOLESALE PRICES, WAGES,

AND

TRANSPORTATION.

REPORT

BY

Nelson Wilmarth

MR. ALDRICH,

FROM THE

COMMITTEE ON FINANCE,

MARCH 3, 1893.

PART 1.

THIS VOLUME EMBODIES IN A CONDENSED FORM EVERYTHING CONTAINED IN VOLUMES 2, 3, AND 4.

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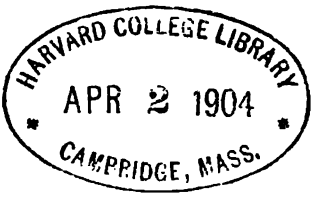

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52D CONGRESS, 2d Session. | SENATE. | REPORT No. 1394.

IN THE SENATE OF THE UNITED STATES.

REPORT ON WHOLESALE PRICES, ON WAGES, AND ON TRANSPORTATION.

MARCH 3, 1893.—Ordered to be printed.

Mr. ALDRICH, from the Committee on Finance, submitted the following

PARTIAL REPORT:

[In response to Senate resolution of March 3, 1891.]

WHOLESALE PRICES AND WAGES.

The Committee on Finance, acting under instructions of the Senate contained in the annexed resolution of March 3, 1891, beg leave to submit the following report upon wholesale prices and wages:

Resolved, That the Committee on Finance be, and they are hereby, authorized and directed, by sub-committee or otherwise, to ascertain in every practicable way, and to report from time to time to the Senate, the effect of the tariff laws upon the imports and exports, the growth, development, production, and prices of agricultural and manufactured articles, at home and abroad; and upon wages, domestic and foreign; and for this purpose they are authorized to sit by subcommittee or otherwise, during the recess and sessions of the Senate, at such times and places as they may deem advisable, and to employ a stenographer and such clerical and other assistance as may be necessary; the expense of such investigation to be paid from the contingent fund of the Senate.

In their report on retail prices and wages (No. 986, Fifty-second Congress) your committee alluded to the fact that they were engaged in the preparation of a comprehensive report on wholesale prices and wages for the fifty-two years from 1840 to 1891, inclusive. The results of this investigation are herewith submitted.

Having in view the importance and the magnitude of this work the committee have been solicitous that every precaution should be taken to secure the greatest possible degree of accuracy. The necessity of elaborate preliminary preparation and careful oversight at every step have delayed the presentation of results. The tables and statements submitted furnish a body of statistics, upon these important subjects, more comprehensive and satisfactory, it is believed, than any heretofore collected.

The purpose of the committee, as stated in their previous report, was to ascertain, through accurate and adequate statistics of prices and wages, the changes which have taken place in the condition, as shown by the relative purchasing power of their earnings, of the great mass of people in the country for the half century which has just closed. The character and extent of these changes are fully disclosed in the

[illegible] which make up the report. The committee [illegible] report, to point out the effect which [illegible] time to time in producing these changes. [illegible] of the facts collected by methods [illegible] the unanimous approval of the mem- [illegible] the accuracy of which there can be [illegible] the results shown by the report to [illegible] lead to a divergence of opinion [illegible] and possibly add nothing to the [illegible] contain statistics upon the follow-

[illegible]

[illegible] from two to three hundred arti- [illegible] markets for the years 1840 to 1891. [illegible] products in New York, [illegible] (Table X.) [illegible] included in Table XI for [illegible] XXII.)

[illegible]

[illegible] earnings include— [illegible] distinct establishments. [illegible] of 1840 to 1891. (Table [illegible] of wages and earnings in [illegible] to 1891. (Table XIII.) [illegible] same period. (Table XIV.) [illegible] 1892. (Table XXIII.) [illegible] prices and wages was in- [illegible] Commissioner of Labor, who, in [illegible] explains the extent and nature [illegible] collected under the supervi- [illegible] of the Department of Agri- [illegible] explains the method of collecting the [illegible]

[illegible] of price statistics the committee was aided by the [illegible] gentlemen, to whom the special branches of inquiry indicated [illegible]

Mr. Henry Bower, secretary of the Manufacturing Chemists' Asso- [illegible] of the United States, Philadelphia, Pa., drugs and chemicals.

Mr. S. N. D. North, secretary of the National Association of Wool Manufacturers, Boston, Mass., wool and woollens.

Messrs. Manger & Avery, of Boston, Mass., on wool.

Mr. Edward Stanwood, secretary of the Arkwright Club, Boston, Mass., cotton textiles.

Mr. [illegible] Reece, Jr., New York, N. Y., textiles.

Among the appendices to the report will be found statements from [illegible] gentlemen in relation to their services.

The committee are also indebted to the following gentlemen and [illegible] furnished on the subjects indicated:

[illegible] Edwin C. Angell, president of the American Screw, Com- [illegible] Providence R. I. Shoes, Isaac H. Bailey, Boston, Mass. [illegible]

pets, Roxbury Carpet Company, Roxbury, Mass., Bigelow Carpet Company, Clinton, Mass., A. T. Lyman, treasurer Lowell Manufacturing Company, Lowell, Mass. Pocket knives, Thos. W. Bradley, president New York Knife Company, Walden, N. Y. Fish, Fred. F. Donimick, secretary Boston Fish Bureau, Boston, Mass. Butts, H. N. Fenner, treasurer New England Butt Company. Anvils, Clark Fisher, Trenton, N.J. Meats and provisions, Hitchcock, Darling & Company, New York, N. Y. Plate glass, E. A. Hitchcock, president Crystal Plate Glass Company, St. Louis, Mo. Table cutlery, C. S. Landers, Landers, Frary & Clark, New Britain, Conn. Groceries and provisions, Isaac Locke, Boston, Mass., S. P. Hibbard, Boston, Mass. Earthenware, John Moses and Joseph Willets, Trenton, N. J. Files, W. T. Nicholson, president Nicholson File Company, Providence, R. I. Rope, Plymouth Cordage Company, Plymouth, Mass. Hides and leather, Thomas E. Proctor, Boston, Mass. Table glassware, D. C. Ripley, president United States Glass Company, Pittsburgh, Pa. Iron and steel, James M. Swank, Philadelphia, Pa. Wire, Chas. F. Washburn, vice-president Washburn and Moen Manufacturing Company, Worcester, Mass. Nickel, Joseph Wharton, Camden, N. J. Hardware, J. M. Woodruff, treasurer Russell and Erwin Manufacturing Company, New York, N. Y.

The special investigations concerning the wages in the coal, iron, glass, and pottery industries were entrusted to Mr. Joseph D. Weeks, of Pittsburg, Pa., and the statistics in regard to teachers' salaries were secured through Hon. William T. Harris, Commissioner of Education (Appendix D).

In the selection of articles for quotation the committee frequently consulted the representatives of leading industries. As regards the statistical preparation of their work they enjoyed the advice of leading statisticians, to whom they are indebted for useful suggestions in making their work effective.

The figures contained in the various tables have been subjected to elaborate analyses by the statistician of the committee, Dr. Roland P. Falkner, Professor of Statistics in the Wharton School of Finance and Economy, University of Pennsylvania. His report (Appendix A) contains a more detailed statement of results than can be given here, and a discussion of the methods which have been employed in the analyses.

RESULTS OF THE INVESTIGATION.

It became evident at an early stage of the investigation that the prices of but a comparatively small number of articles could be traced back to the year 1840. The committee therefore indicated to their agents that prices should be obtained for as early a period as possible, and that in all cases they should go back at least to the year 1860. For reasons set forth at length by the statistician the year 1860 was chosen as the point of comparison, the prices of other years being compared with those of 1860 as the standard.

The same conditions existed in regard to wages. It was impossible to secure satisfactory figures, except in a limited number of cases, for the year 1840 and the years immediately following. In the analysis of wage rates, therefore, as well as in prices, the year 1860 is taken as the standard, and throughout all the comparisons which are made in the report reference is made to that year, unless it is specifically stated otherwise.

PRICES.

In dealing with the specific results of the investigation we will con sider the situation of prices in the final years of investigation, 1891, and the course of prices throughout the years covered by the tables. In this report we are unable to give more than a statement of general results and must refer to the appendices for the figures relating to individua articles. Compared with the standard year 1860, the relative price o 223 articles in 1891 in the various groups is shown by the following table

Relative prices, 1891 compared with 1860, by groups.

Group.	1	2	3
	Number of articles.	Sum of relative prices.	Division of 2 by
Food	53	5,507.1	103.
Cloths and clothing	28	2,269.4	81.
Fuel and lighting	10	910.0	91.
Metals and implements	54	4,048.5	74.
Lumber and building materials	35	4,279.3	122.
Drugs and chemicals	18	1,553.8	86.
House-furnishing goods	15	1,051.8	70.
Miscellaneous	10	950.9	95.
Total	223	20,565.8	92.

From the foregoing it appears that in 1891 prices were 7.8 per cen lower than in 1860.

There are 85 articles whose prices are given in 1840, and if we mak a similar comparison for these articles, taking 1840 as the standar year, we have the following table:

Relative prices, 1891 compared with 1840, by groups.

Groups.	1	2	3
	Number of articles.	Sum of relative prices.	Divisi of 2 by
Food	30	3,285.4	10
Cloths and clothing	9	720.6	8
Fuel and lighting	1	19.5	1
Metals and implements	12	953.2	7
Lumber and building materials	15	1,779.2	11
Drugs and chemicals	15	1,183.7	7
House-furnishing goods	2	192.2	9
Miscellaneous	1	50.0	5
Total	85	8,183.8	9

The decline in prices is not so marked in this as in the former co parison.

No attempt has been made in either of the foregoing comparisons assign to any of the articles included in the list a significance propo tionate to its importance in daily life. Each article is accounted ab lutely equal. As it was desired to ascertain the influence of chang in price upon the standard of living of the average citizen of the Unit States, an exhaustive examination was made of the proportions which the articles of consumption enter into the budgets of famili Details relating to this investigation are to be found in our rep upon retail prices and wages. If we give to the relative price of ea group its importance in the total, according to this method, we ha

the following table for 1891, 1860 being the standard and indicated by 100 in all cases:

Relative prices of all articles, 1891, measured by consumption.

Group.	Importance.	Index.	Result.
Rent	1,506	100.0	1,506,000
Food	4,103	103.7	4,254,811
Fuel	500	98.1	490,500
Lighting	90	48.1	43,290
Clothing	1,531	75.1	1,162,029
All other purposes	2,270	95.3	2,164,069
Total	10,000	96.2	9,620,726

In this table we have been obliged to consider that certain items of expenditure, not affected by changes in price of the articles in question, have remained stationary throughout the period. If this be so, then the foregoing table gives a correct statement that the cost of living in 1891 is between 4 and 5 per cent less than in 1860. If, however, we apply our price figures simply to that portion of the family expenditure which is affected by their changes, and leave rent, etc., out of consideration, we find that the relative price in 1891 for 68.6 per cent of the total family expenditure is 94.4.

THE COURSE OF PRICES.

The following table gives a statement of relative prices throughout the period covered by the investigation. Three different methods of combination are given in this table and the prices are in currency:

Relative prices in each year, 1840–1891, for all articles grouped by different methods.

Year.	All articles simply averaged.	All articles averaged according to importance, certain expenditures being considered uniform.	All articles averaged according to importance, comprising 68.60 per cent of total expenditure.	Year.	All articles simply averaged.	All articles averaged according to importance, certain expenditures being considered uniform.	All articles averaged according to importance, comprising 68.60 per cent of total expenditure.
1840	116.8	98.5	97.7	1866	191.0	160.2	187.7
1841	115.8	98.7	98.1	1867	172.2	145.2	165.8
1842	107.8	93.2	90.1	1868	160.5	150.7	173.9
1843	101.5	89.3	84.3	1869	153.5	135.9	152.3
1844	101.9	89.8	85.0	1870	142.3	130.4	144.4
1845	102.8	92.1	88.2	1871	136.0	124.8	136.1
1846	106.4	96.7	95.2	1872	138.8	122.2	132.4
1847	106.5	96.7	95.2	1873	137.5	119.9	129.0
1848	101.4	92.0	88.3	1874	133.0	120.5	129.9
1849	98.7	88.9	83.5	1875	127.6	119.8	128.9
1850	102.3	92.6	89.2	1876	118.2	115.5	122.6
1851	105.9	99.1	98.6	1877	110.9	109.4	113.6
1852	102.7	98.5	97.9	1878	101.3	103.1	104.6
1853	109.1	103.4	105.0	1879	96.6	96.6	95.0
1854	112.9	103.4	105.0	1880	106.9	103.4	104.9
1855	113.1	106.3	109.2	1881	105.7	105.8	108.4
1856	113.2	108.5	112.3	1882	108.5	106.3	109.1
1857	113.5	109.6	114.0	1883	106.0	104.5	106.6
1858	101.8	109.1	113.2	1884	99.4	101.8	102.6
1859	100.2	102.0	102.9	1885	93.0	95.4	93.3
1860	100.0	100.0	100.0	1886	91.9	95.5	93.4
1861	100.6	95.9	94.1	1887	92.6	96.2	94.5
1862	117.8	102.8	104.1	1888	94.2	97.4	96.2
1863	148.6	122.1	132.2	1889	94.2	99.0	98.5
1864	190.5	149.4	172.1	1890	92.3	95.7	93.7
1865	216.8	190.7	232.2	1891	92.2	96.2	94.4

A convenient summary of the foregoing table, by periods of five years, is found in the following:

Relative prices, by five-year periods, 1840–1891, for all articles grouped by different methods.

Periods.	All articles simply averaged.	All articles averaged according to importance, certain expenditures being considered uniform.	All articles averaged according to importance, comprising 68.60 per cent of total expenditure.
1840–'44	108.8	93.9	91.
1845–'49	103.2	93.3	90.
1850–'54	106.6	99.4	99.
1855–'59	108.2	107.1	110.
1860–'64	131.5	114.0	120.
1865–'69	178.8	156.5	182.
1870–'74	137.5	123.6	134.
1875–'79	110.9	108.9	112.
1880–'84	105.3	104.4	106.
1885–'89	93.2	96.7	95.
1890–'91	92.3	96.0	94.

In these tables the influence of currency depreciation in the perio from 1861 to 1878 is clearly seen. The disturbing factor can be elimi nated, partially at least, by a reduction to the gold basis. The table her given is a repetition of the preceding, with the exception that the perio from 1861 to 1878 is reduced to a gold basis.

Relative prices, in gold, by five-year periods, 1840–1891, for all articles grouped by differe methods

Periods.	All articles simply averaged.	All articles averaged according to importance, certain expenditures being considered uniform.	All articl averaged accordin to impor tance, co prising 68.60 pe cent of to expendi ture.
1840–'44	108.8	93.9	91
1845–'49	103.2	93.3	90
1850–'54	106.6	99.4	98
1855–'59	108.2	107.1	110
1860–'64	108.1	95.3	98
1865–'69	118.7	103.9	12
1870–'74	121.8	109.4	11
1875–'79	103.8	102.0	10
1880–'84	105.3	104.4	10
1885–'89	93.2	96.7	9
1890–'91	92.3	96.0	94

From a consideration of the foregoing it is noticeable that measure in currency the highest range of prices is found in the period from 18 to 1869; but that measured in gold, the maximum is found in the su ceeding period of five years. Attention is also called to the fact th in the two years, 1890 and 1891, prices are lower than in any previo period since 1850. In the decade from 1840 to 1849 the low price food rendered the cost of living somewhat less than it is at present.

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As with prices, we may consider the final results, as well as the course of wages, during the period covered by the investigation. In 1891 wages, as compared with 1860, were as follows:

Relative wages in 1891, compared with 1860 by industries.

Industry.	Number of quotations.	Relative wages.
Agricultural implements	5	137.
Ale, beer, and porter	5	224.
Books and newspapers	21	148.
Building trades	39	172.
Carriages and wagons	4	202.
City public works	23	161.
Cotton goods	131	166.
Dry goods (stores)	3	185.
Ginghams	30	152.
Groceries (stores)	2	194.
Illuminating gas	22	167.
Leather	16	137.
Lumber	5	177.
Metals and metallic goods	130	148.
Paper	7	182.
Railroads	11	146.
Sidewalks	4	187.
Spice	5	164.
Stone	19	163.
White lead	3	146.
Woollen goods	58	167.
Total	543	16[illegible]

Here, as elsewhere throughout the report, the year 1860 is the standard of comparison. As compared with 1860 the average wages in the year 1840 were 87.7. Hence, should we make the year 1840 the starting point of our investigation, the wages of 1891 would stand at 183.

Each quotation in these comparisons has been given equal force in ascertaining the results; but should we take as a measure of the importance of each industry the relative number of persons who are employed in it, we should find that the average wages of 1891 stood at 168.6 as compared with 1860, and at 204.4 as compared with 1840.

The advance in daily wages which is here noted has been accompanied by a decrease in the hours of labor. In 1840 the average hours of labor for the occupations included in the table were 11.4 per day. In 1860 they were 11 per day, and in 1891 ten hours per day. Thus it is clear that on the basis of an hourly rate the relative wages of 1891 would stand higher than the figures we have quoted. Compared with 1840 hourly wages in 1891 stood at 209.0, and compared with 1860 176.8.

THE COURSE OF WAGES.

The course of wages throughout the period covered by the investigation is shown in the following table:

Relative wages in all occupations, 1840 to 1891, grouped by different methods.

Year.	Simple average.	Average according to importance.	Year.	Simple average.	Average according to importance.
1840	87.7	82.5	1866	152.4	155.6
1841	88.0	79.9	1867	157.6	164.0
1842	87.1	84.1	1868	159.2	164.9
1843	86.6	83.0	1869	162.0	167.4
1844	86.5	83.2	1870	162.2	167.1
1845	86.8	85.7	1871	163.6	166.4
1846	89.3	89.1	1872	166.0	167.1
1847	90.8	91.3	1873	167.1	166.1
1848	91.4	91.6	1874	161.5	162.5
1849	92.5	90.5	1875	158.4	158.0
1850	92.7	90.9	1876	152.5	151.4
1851	90.6	91.1	1877	144.9	143.8
1852	90.8	91.8	1878	142.5	140.9
1853	91.8	93.2	1879	139.9	139.4
1854	95.8	95.8	1880	141.5	143.0
1855	98.0	97.5	1881	146.5	150.7
1856	99.2	98.0	1882	149.9	152.9
1857	99.9	99.2	1883	152.7	159.2
1858	98.5	97.9	1884	152.7	155.1
1859	99.1	99.7	1885	150.7	155.9
1860	100.0	100.0	1886	150.9	155.8
1861	100.8	100.7	1887	153.7	156.6
1862	102.9	103.7	1888	155.4	157.9
1863	110.5	118.8	1889	156.7	162.9
1864	125.6	134.0	1890	158.9	168.2
1865	143.1	148.6	1891	160.7	168.6

A summary of the table by five-year periods is given in the following table:

Relative wages in all occupations by five-year periods, grouped by different methods.

Period.	Simple average.	Average according to importance.	Period.	Simple average.	Average according to importance.
1840–'44	87.2	82.5	1870–'74	164.1	165.8
1845–'49	90.2	89.6	1875–'79	147.6	146.7
1850–'54	92.3	92.6	1880–'84	148.7	152.2
1855–'59	98.9	98.5	1885–'89	153.5	157.8
1860–'64	108.0	111.4	1890–'91 (2 years)	159.8	168.4
1865–'69	154.9	160.1			

Wages equally with prices felt the disturbing influence of variabl currency during the period from 1861 to 1878, and in order to furnis a basis of comparison with prior and subsequent years, we reduce i the following table the relative wages for the years 1861 to 1878 to th gold basis:

Relative wages in gold in all occupations, 1840–'91, grouped by different methods.

Year.	Simple average.	Average according to importance.	Year.	Simple average.	Average according to importance.
1840	87.7	82.5	1866	108.8	111
1841	88.0	79.9	1867	117.1	121
1842	87.1	84.1	1868	114.9	118
1843	86.6	83.0	1869	119.5	12[illegible]
1844	86.5	83.2	1870	123.7	13[illegible]
1845	86.8	85.7	1871	147.8	15[illegible]
1846	89.3	89.1	1872	152.2	15[illegible]
1847	90.8	91.3	1873	148.3	14[illegible]
1848	91.4	91.6	1874	145.0	14[illegible]
1849	92.5	90.5	1875	140.8	14[illegible]
1850	92.7	90.9	1876	135.2	13[illegible]
1851	90.4	91.1	1877	136.4	13[illegible]
1852	90.8	91.8	1878	140.5	13[illegible]
1853	91.8	93.2	1879	139.9	13[illegible]
1854	95.8	95.8	1880	141.5	14
1855	96.0	97.5	1881	146.5	15
1856	99.2	98.0	1882	149.9	15
1857	99.9	99.2	1883	152.7	15
1858	98.5	97.9	1884	152.7	15
1859	99.1	99.7	1885	150.7	15
1860	100.0	100.0	1886	150.9	15
1861	100.8	100.7	1887	153.7	15
1862	100.4	101.2	1888	155.4	15
1863	76.2	81.9	1889	156.7	16
1864	80.8	86.2	1890	158.9	16
1865	86.2	88.7	1891	160.7	16

From a consideration of the foregoing table it becomes evident th there was a gradual advance in wages from 1840 to 1860. Since th date the advance has been less regular but more rapid. The peri from 1875 to 1880 was marked by a standstill, but since that time t advance has been continuous.

These conclusions are confirmed by the supplementary investigatio embodied in the report. An exact agreement between the results Mr. Weeks's investigation and the general tables could not have be expected in view of the restricted scope of the former.

It may be considered a substantial agreement that the average the individual quotations in Table XIII gives 156.5 as the relati wages of 1891, while the same method of averaging the larger tab XII, gives 160.7. To present as complete a picture as possible of t movement of wages the committee endeavored to obtain represen tives of the salaried classes. After a careful study it was found th the salaries of teachers were best adapted for this purpose. Throu the courtesy of the Commissioner of Education some very valua figures were collected, which are presented in Table XIV. The sults of the analysis show that the advance of remuneration in t field has been similar to that of the wage-earning classes. The g eral average of all quotations for the year 1891 shows salaries to ha been 186.3 as compared with 100 in 1860.

PRICES AND WAGES IN 1891 AND 1892.

When it was seen that the publication of the report might be layed, the committee decided to collect supplementary figures wh

should bring the work down to as late a date as possible. To this end the Commissioner of Labor was requested to collect prices and wages to complete the series to October, 1892, for the identical articles and occupations which formed the subject of his previous investigations. (Tables XXII and XXIII.)

From an analysis of these figures it appears that the prices of October, 1891, stood at 91 as compared with 1860, while those of October, 1892, stood at 89.3. As at the final date of our previous table, January, 1891, the relative price of all articles was 92.2, it is clear that there has been a constant fall.

This result is confirmed by calculations giving each article its importance. The respective figures are:

January, 1891	94.4
October, 1891	92.8
October, 1892	91.7

A similar analysis of supplementary wages is made, with the result that in July, 1891, relative wages stood at 161.272, while on the following October they were 161.239, as compared with 1860. There was an advance over the last date of our previous tables, when the relative wages were 160.7, but no substantial change between the two later dates.

FOREIGN PRICES AND WAGES.

The committee felt that it was desirable to obtain, if possible, statistics of prices and wages in European countries for the purpose of making a parallel with the figures for the United States. The committee were unable to undertake any original investigation abroad and were, therefore, confined to an analysis of figures which could be obtained for Europe in official documents or from private sources. We were more successful in obtaining material for European prices than in establishing the desired comparisons. It appears, therefore, that the investigation inaugurated by your committee might advantageously be supplemented by securing statistics in Europe. The statistician of the committee has made an extended analysis of European prices. They differ radically from our statistics, both as to the extent and methods of combination employed.

It is impossible, therefore, to make any satisfactory combinations along the principles adopted by the committee in its work. The guiding principle of that work has been, throughout, the influence of changes in prices upon a standard of living. Hence the figures collected by the committee comprised mainly articles as nearly as possible in the form in which they entered into the consumption of families. European price statistics, having a less extensive range than ours and comprising in the main simply primary products, are not valuable for comparisons of the nature instituted by the committee.

Hence if a comparison should be made, it could only be done along the lines of European statistics and especially those of the well-known price quotations of the Economist of London.

From a consideration of the comparisons found in Table 82 of the Report of the Statistician, it appears that the course of prices of twenty-two articles of wholesale commerce which are comprised in them varies but slightly in the United States, England, Hamburg, and France. It is to be regretted that in published statistics relating to Europe no figures concerning wages could be found in any way adequate to a comparison with those presented by the committee. So far as prices and wages in European countries are concerned, the committee has been able to give simply a description of European price stat-

istics, and has been unable to make the comparisons which were deemed desirable.

The tables presented in connection with this report contain certain matters drawn from the records of Government purchases which are merely corroborative of what has already been discussed. The report of the statistician contains a more detailed account of the results of the investigation than can be given here, and especial attention is called to it.

The investigation has been conducted for the Finance Committee by a sub-committee, consisting of Messrs. Aldrich (chairman), Allison, Hiscock, Jones (Nevada), Harris, and Carlisle.

TRANSPORTATION.

In its previous reports, made in compliance with Senate resolution of March 3, 1891, the Committee on Finance has treated exhaustively the course of retail prices and wages from June, 1889, to September, 1891, and of wholesale prices and wages since 1840.

In the prosecution of their work the committee were constantly impressed with the importance of transportation charges as a factor in determining prices, notably those of the great staple products of our agriculture, mines, and manufactures. Without an effort at least to measure this influence, their work would have been incomplete along obvious lines.

An examination of the course of transportation charges no less complete and no less comprehensive than that of prices and wages was therefore determined upon. For the prosecution of this investigation the committee were fortunate in securing the services of Mr. C. C. McCain, auditor of the Interstate Commerce Commission. His long personal experience and his official position enabled him to secure a great quantity of material relating to the subject of railroad rates which might have been inaccessible to others. This material, together with an elaborate study of the results of his investigation, are found in his report to the committee (Appendix K). It is commended to the attentive examination of those who are interested in the problems of transportation.

The committee had, in other portions of their work, covered the period from 1840 to 1891, or as much thereof as possible. It is manifest that by reason of the recent growth of some of the more important branches of freight traffic by rail, many rates could not be traced far into the past. In 1840 railroad transportation was in its infancy. Even in 1860, the year fixed by the committee in their report on wholesale prices as the point of comparison, the transportation industry was confined to narrow limits compared with the enormous expansion which has since taken place.

These considerations, together with the difficulty of obtaining earlier records, rendered it impracticable to pursue the methods of analysis which were followed as respects prices and wages. In only a limited way was it possible to obtain figures for the year 1860, the records having in most cases been destroyed. Hence we are forced to present such material as is available and to describe the general tendency of the facts observed rather than to measure one series against another, as was possible in treating of wages and prices. At the same time it should be noted that what is here presented forms the most complete study of the facts in question of which we have any knowledge. We

believe that nowhere else can such a body of information be found in published form. For the last twenty-five years the figures are exceedingly comprehensive.

The method heretofore pursued by your committee of selecting typical facts, rather than overburdening their reports with a mass of unrelated matter, has been followed in the investigation of freight charges. In choosing the figures to be published care has been taken to give, first, typical distances, and, second, typical freight traffic. It is believed that by this method no branch of the transportation service has been omitted from the investigation.

That the points and commodities selected for the construction of the tables are in effect standard and not accidental is clearly evident from the method by which the rates are determined which is fully described by Mr. McCain in his report. Suffice it to say that rates between New York and Chicago, for instance, are in the strictest sense typical, since through rates on the same lines to other points are fixed percentages of these rates. Moreover the rates between New York and Chicago are the same for several lines of road, the others charging definite proportions of these standard rates. This shows the method of rate-making which facilitates the selection of typical rates.

RESULTS OF THE INVESTIGATION.

In the report of the Auditor of the Interstate Commerce Commission the changes in freight rates are shown under the following headings:

1. West-bound rates, mainly classified rates.
2. East-bound rates, classified rates, and commodity rates.
3. Tonnage rates.
4. Local rates.

In showing west-bound rates the typical rate is, as stated, New York to Chicago. The traffic is of a miscellaneous character and is carried under the rates of the freight classifications. Changes in freight charges have resulted from two causes—changes in rates and changes in classification.

As illustrating the changes in rates we give the average rates for each class, New York to Chicago, for certain years.

[Rates in cents per 100 pounds.]

Year.	Classes.					
	1	2	3	4	5	6 Special.
1862	159	127	100	60	.....	.....
1864	193	161	121	87	.....	.....
1865	215	180	107	93	.....	.....
1867	190	162	129	83	.....	.....
1870	130	113	90	69	50	.....
1875	61	55	46	38	29	.....
1880	75	60	50	40	.....	.....
1885	56	45	34	27	.....	.....
1890	75	65	50	35	30	25

If the year 1867 be considered as 100 in each class we find the relative rates in 1892 to have been:

First class	39.47	1867=100.0.
Second class	40.12	
Third class	38.76	
Fourth class	42.17	

What these changes mean can be seen by the following comparison

Percentage of traffic in each class.

	1880.	1885.	1890.	1892
First class	26.4	24.8	21.0	1
Second class	6.7	7.1	6.4	
Third class	4.4	4.2	12.3	1
Fourth class	50.1	29.3	12.7	1
Fifth class	10.6	34.6	10.0	
Sixth class	0.0	0.0	37.6	4
Special	1.8	0.0	0.0	

It is evident from the foregoing statement that the reduction in cla rates is not the only element in the reduction of transportation charg A very important factor is the change of classification. The numb of articles in the lower grade is much greater than in the former clas fications. The details of these changes are given in full in the sta ment of the Auditor. We extract the following statement of class cations in use in the territory covered by Western classification No.

Per cent of articles classified in third class or higher.

1873	71
1878	69
1882	69
1886	59
1887	58
1893	53

Through change in classification many articles have received lo rates without any reduction in the class rates. To demonstrate combined action of class reductions and classification changes, a se of tables have been prepared, giving the rates and class, at differ dates, of a large number of specific articles. Compared with 1867 100, the relative rates in 1892 of the following standard articles fr New York to Chicago were:

Dry goods	39.47
Cotton piece goods	26.32
Boots and shoes	39.47
Furniture:	
L. C. L	39.47
C. L	34.21
Stoves:	
L. C. L	15.79
C. L.	13.16
Coffee:	
L. C. L	21.60
C. L	15.43
Rice:	
L. C. L	42.17
C. L	30.12
Groceries	40.12
Drugs	39.47
Crockery and earthenware:	
L. C. L	21.60
C. L	18.52
Bagging:	
L. C. L	30.86
C. L	21.60
Leather:	
L. C. L	30.86
C. L	21.60
Soap, castile and fancy:	
L. C. L	27.13
C. L	15.43
Soap, common:	
L. C. L	2
C. L	2
Starch:	
L. C. L	2
C. L	1
Tea	3
Sugar:	
L. C. L.	4
C. L	2
Molasses:	
L. C. L.	4
C. L	3
Lead:	
L. C. L.	4
C. L	3
Nails:	
L. C. L.	3
C. L	3
Hardware	4
Agricultural implements:	
L. C. L.	2
C. L	1
Machinery:	
L. C. L.	2
C. L	2
Beer:	
L. C. L.	3
C. L	2

The figures here given may be taken as indicative of the changes which have taken place in freight charges on west-bound traffic. An examination of the rates by rail and lake routes and by canal and lake routes reveals exactly the same tendencies.

The east-bound traffic from Chicago to New York is made up of articles carried under the classified rates and others carried under commodity rates. A separate analysis of each confirms the results obtained in the analysis of the west-bound rates.

We would refer also to the copious tables of the report for rates from Chicago to points further west and between Pacific coast points and Eastern cities, all of which show the same tendency to decrease.

RATES PER TON MILE.

Another method of obtaining the same result is to take the familiar standard of the rate per ton mile. For this comparison it has been possible to obtain material at very early dates for some lines. The following table shows a comparison of 1892 with 1860, and in some cases also with 1852.

Name of road.	Cents per ton mile.		
	1852.	1860.	1892.
Fitchburg R. R	3.12	4.10	.925
New York, New Haven and Hartford R. R	.....	4.04	1.756
New York Central R. R	.....	2.05	.700
Lake Shore, Michigan and Southern Rwy	.....	2.16	.602
Michigan Central	.....	2.18	.687
Cleveland, Cincinnati, Chicago and St. Louis R. R	.....	2.12	710
New York, Lake Erie and Western	.....	1.81	.614
Pennsylvania R. R	.....	1.96	.647
Pittsburg, Fort Wayne and Chicago R. R	.....	1.67	.....
Ohio & Mississippi	.....	2.38	.911
Illinois Central	.....	2.04	.908
Chesapeake and Ohio	.....	6.41	a.525

a 1891.

For the dates named this table gives a very interesting and instructive comparison. It shows a very great reduction in freight rates, which is equally demonstrated for a lesser period by the figures for lines not included in the foregoing statement.

LOCAL RATES.

These rates have also felt the tendency to reduction so strongly marked in recent years in through rates. Owing to the fact that local classifications have governed this class of traffic it has not been practicable in many cases to show the changes of rates for individual articles. They have however been reduced in like manner with through rates through changes in classifications as well as reductions in the rates charged for the classes. In the report of Mr. McCain are numberless instances which afford a proof that the reduction of local rates for the classes has been quite material in the last twenty years.

CONCLUSION.

In every department of freight transportation the reduction of rates is shown very clearly by the report herewith submitted. Rich material for the study of the influence of railway rates is afforded by the report of Mr. McCain, to which especial attention is directed.

This investigation has been conducted for the Finance Committee by a sub-committee consisting of Messrs. Aldrich, chairman, Allison, Hiscock, Jones (Nevada), Harris, and Carlisle.

VIEWS OF THE MINORITY.

APRIL 11, 1893.

This report was submitted by the majority of the sub-committee of the Committee on Finance in the expiring hours of the last session of the Fifty-second Congress, and at the request of the minority of the sub-committee it was withheld from the printer until the minority should find time to carefully examine it; but the minority has found no time that it could devote to a critical examination of the report, and therefore it allows the report to go to print without expression of its views further than to say that no accurate or reliable approximate conclusion as to the movement in prices can be reached by comparing the movement in prices of a few articles at one period with the movement of many and dissimilar articles at another period.

The minority, therefore, reserves the right upon the coming in of the final report to express its views fully as to facts as well as the legitimate and proper conclusions to be drawn from the facts.

ISHAM G. HARRIS.

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APPENDIX A.

REPORT OF THE STATISTICIAN.

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WASHINGTON, D. C., *September* 1, 1892.

Hon. NELSON W. ALDRICH,
Chairman Sub-committee on Tariff:

I have the honor to submit herewith a statement of the work which has deen done as the statistician of your committee, embodying the results of that portion of the investigation which relates to prices and wages from 1840 to the present time. The report contains the analysis of tables relating to the following subjects:

Table X. Wholesale prices of farm products for 52 years.
Table XI. Wholesale prices of commodities for 52 years.
Table XII. Rates of wages for 52 years.
Table XIII. Rates of wages for 52 years in the coal, iron, glass, and pottery industries.
Table XIV. Teachers' salaries for 52 years.

The data comprised in these tables have been collected from various sources under the direction of the committee, and the work of collection and verification has been in the hands of various bureaus and individuals who have elsewhere described the methods pursued. The present report is, therefore, confined exclusively to an analysis of the tables.

WHOLESALE PRICES OF COMMODITIES FOR FIFTY-TWO YEARS.

The contents of Table XI constitute one of the most exhaustive examinations which has ever been made into the history of prices. It includes over four hundred articles, covering the prices not only of food products and raw materials, but also of a very large number of manufactured articles for the period of 1840 to 1891, inclusive. While for many articles it was impossible to secure the prices for so early a date as 1840, the investigation must be considered remarkably successful in view of the fact that for as many as 90 articles prices were obtained in 1840, while there are 223 articles covering the period of thirty-two years, from 1860 to the present time. In making the analysis of the figures which are presented in this report no departure has been made from the methods approved by the committee in the analysis of retail prices. On the other hand the conditions of the problem have rendered necessary a somewhat different application of the same general features. In order to form an idea of the course of prices during the period under investigation recourse has been had to a system of percentages showing the rise or fall in price from a given base line which is considered as 100. By this means the comparison of a large number of objects varying greatly in units of measurement as well as in price is rendered comparatively easy.

In reducing the actual prices given to a system of percentages or of relative prices the first point to be taken into consideration was the selection of the base line, or in other words, of the period which should

represent 100 in the system to be adopted. While in many respects it would have been highly desirable to have selected as the basis of the analysis either the year 1840, or the average of the years 1840 to 1845, which constituted the starting point of the investigation, for practical reasons this plan had to be abandoned. A system of relative prices for fifty-two years comprising 90 articles would, it is true, be more comprehensive both as to volume and the period covered than the majority of previous investigations. Yet such a statement would have rendered comparatively useless for purposes of comparison all the articles the quotations for which begin later than 1840. On the 1840 basis it would have been impossible to have carried out the analysis of the figures presented in all the refinements of which they are capable and which were desired by the committee. For this reason it was deemed advisable to select a period which would incorporate in the analysis a larger proportion of the figures which are presented.

After a careful consideration of all the circumstances it was considered that the basis best adapted for the analysis was the price of the year 1860, and in the following analysis that year is the basis of all our comparisons. It is considered as 100 and the prices of prior and subsequent years are expressed as percentages of the same. The year 1860 represents a period in our industrial development midway between the older methods of production that prevailed before the war and those which have come into use since that period. It is also a period of comparatively normal prices. The markets of the country had recovered from the crisis of 1857 and the disturbances of trade caused by the war had not yet taken place. The year 1865, midway between the beginning and end of the investigation, is utterly unadapted to serve as a base by reason of the inflated state of the currency, which caused a wholly abnormal condition of the market. The same is equally true of the average for 1865–1869, inclusive, which is the basis of the celebrated calculations of Mr. Palgrave in the Report of the Commission on the Depression of Trade and Industry. The year 1870 is still too much under the influences of the currency inflation to serve as a basis of comparison, besides being open to the objection that it is too close to the present day to furnish useful comparisons.

While in the investigations of English and European statisticians it has not been customary to take a single year for a basis, but rather the average for a period of years, never exceeding five in number, there were important reasons why, in the analysis here presented, a single year should be taken as a basis of comparison. It was not always practicable to secure for the articles in question the average prices that would have covered the period immediately prior to 1860, while in the following year some prices already manifested the disturbances due the unsettled state of national affairs. The choice of an abnormal year would have been a mistake, but the year 1860 presents all the aspects of a normal year. Its price varies little from that of 1859 or of 1858 on the one hand, and of 1861 on the other. It is, therefore, quite as proper a basis of comparison as would be an average of these four years. No scientific reason has been adduced why an average should be preferable to a single year, except that in an average the abnormal features of individual years tend to disappear. If, however, a single year can be found which presents no features which are to be considered abnormal it is quite as accurate to take this year as a basis as to take a group of years of which this forms a part. These considerations have led us

the belief that the year 1860 is perfectly adapted to serve as base of the analysis.

The prices presented in Table XI are as a rule actual prices obtained at certain dates, while in a few cases they are average prices for the year. The greatest care was exercised to secure absolutely accurate statements and the books of merchants and manufacturers were ransacked in order to obtain figures worthy of every confidence. It is felt to be a special merit of this investigation that the prices which are presented are, as a rule, actual and not average prices; that they represent the amounts actually paid for the articles in question. With all the caution which has been taken in the collection of figures, therefore, it is evident that the prices are representative of the prices for the years in question, and in making the analysis it has been felt that no advantage could be gained by any system of averaging the prices for the four dates for which they were collected. Our analysis, therefore, proceeds on the basis of the January prices in each year where the prices are quoted by quarters. An exception to this rule is made, of course, for those articles for which the January price is not the distinctive price for the year, as for fresh vegetables and the like. Thus, in the cost of potatoes, October is taken as the typical month, but the exceptions to the rule that January is the basis of the comparison are very few. In a very small number of series where 1860 was missing, but the preceding year given, that year was taken as a base. These instances do not disturb the results.

Our analysis must deal principally with those prices which cover the period from 1860 to 1891, and which are, therefore, susceptible of the comparisons which have been suggested. At the same time an effort will be made to utilize, for purposes of comparison, such series of quotations which cover a less period. We are concerned, in the first instance, with the 223 quotations which cover the entire period from 1860 to 1891, and portions of the period from 1840 to 1891. The results of reducing these prices to a system of relative prices as compared with 1860, are given in Table I.

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices.*

FOOD.

Year.	Beans.	Bread.								
		A shipbread.	B shipbread.	Boston crackers.	Boston crackers.	Boston crackers.	Boston crackers, extra grade.	Navy shipbread.	Oyster crackers.	Ship biscuits.
1840	.....	.....	.....	.....	.....	70.6	62.5	.....	.....	125
1841	.....	.....	.....	.....	.....	74.1	61.7	.....	.....	100
1842	.....	.....	.....	.....	.....	71.8	66.7	.....	.....	112
1843	.....	.....	.....	.....	.....	70.6	65.8	.....	.....	87
1844	.....	.....	.....	.....	.....	70.6	66.7	.....	.....	87
1845	.....	100.0	93.8	.....	70.6	70.6	66.7	92.9	80.0	87
1846	.....	100.0	93.8	.....	70.6	70.6	66.7	92.9	80.0	112
1847	.....	131.3	125.0	.....	70.6	70.6	66.7	121.4	80.0	100
1848	.....	108.3	112.5	.....	70.6	70.6	66.7	95.2	80.0	100
1849	.....	106.3	100.0	.....	70.6	70.6	66.7	95.2	80.0	112
1850	.....	87.5	75.0	.....	94.1	94.1	83.3	66.7	93.3	100
1851	.....	87.5	75.0	.....	94.1	94.1	83.3	78.6	93.3	9
1852	.....	83.3	87.5	.....	88.2	94.1	83.3	85.7	93.3	87
1853	.....	87.5	87.5	.....	82.4	70.6	66.7	85.7	93.3	100
1854	.....	81.3	75.0	.....	70.6	70.6	66.7	85.7	93.3	137
1855	.....	87.5	87.5	.....	76.5	58.8	58.3	85.7	93.3	162
1856	140.0	81.3	75.0	.....	88.2	88.2	75.0	85.7	86.7	162
1857	106.7	75.0	75.0	.....	82.4	82.4	83.3	85.7	80.0	125
1858	89.3	87.5	87.5	.....	82.4	82.4	83.3	85.7	93.3	106
1859	86.7	87.5	87.5	.....	94.1	94.1	91.7	85.7	93.3	93
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100
1861	100.0	150.0	150.0	107.1	129.4	117.6	116.7	142.9	133.3	112
1862	136.5	175.0	175.0	107.1	147.1	135.3	116.7	171.4	146.7	100
1863	145.9	187.5	187.5	107.1	164.7	164.7	141.7	185.7	160.0	125
1864	160.5	175.0	175.0	185.7	152.9	152.9	133.3	171.4	146.7	150
1865	173.3	162.5	162.5	185.7	117.6	117.6	116.7	171.4	120.0	137
1866	153.3	162.5	162.5	171.4	105.9	105.9	100.0	171.4	113.3	100
1867	206.7	162.5	162.5	185.7	105.9	105.9	100.0	171.4	106.7	137
1868	223.2	162.5	162.5	171.4	105.9	105.9	100.0	171.4	106.7	187
1869	226.7	156.3	156.3	142.9	105.9	105.9	100.0	171.4	100.0	150
1870	146.7	150.0	150.0	142.9	105.9	105.9	100.0	157.1	113.3	125
1871	133.3	150.0	162.5	128.6	94.1	94.1	83.3	142.9	113.3	137
1872	153.3	150.0	137.5	128.6	88.2	88.2	75.0	142.9	113.3	150
1873	193.3	137.5	125.0	128.6	82.4	82.4	75.0	128.6	120.0	150
1874	193.3	137.5	125.0	128.6	82.4	82.4	75.0	128.6	120.0	150
1875	133.3	125.0	112.5	114.3	82.4	82.4	87.5	114.3	100.0	125
1876	94.7	125.0	112.5	114.3	76.5	82.4	87.5	114.3	100.0	125
1877	159.7	125.0	112.5	114.3	82.4	82.4	87.5	114.3	100.0	125
1878	116.0	112.5	100.0	114.3	64.7	70.6	75.0	100.0	100.0	125
1879	84.0	112.5	100.0	114.3	88.2	82.4	87.5	100.0	100.0	125
1880	98.7	125.0	112.5	114.3	70.6	82.4	87.5	114.3	93.3	125
1881	97.3	125.0	112.5	114.3	70.6	82.4	87.5	114.3	93.3	125
1882	178.7	125.0	112.5	114.3	82.4	82.4	83.3	114.3	93.3	125
1883	152.0	125.0	112.5	114.3	82.4	.....	.....	114.3	93.3	125
1884	146.7	125.0	112.5	114.3	70.6	.....	.....	114.3	93.3	125
1885	92.0	125.0	112.5	114.3	58.8	.....	.....	114.3	93.3	112
1886	84.0	125.0	112.5	114.3	58.8	.....	.....	114.3	93.3	112
1887	92.0	125.0	112.5	114.3	58.8	.....	.....	114.3	86.7	125
1888	137.3	125.0	112.5	114.3	58.8	.....	.....	114.3	86.7	112
1889	122.7	125.0	112.5	114.3	58.8	.....	.....	114.3	80.0	112
1890	109.3	125.0	112.5	114.3	58.8	.....	.....	114.3	80.0	112
1891	118.7	125.0	112.5	114.3	58.8	.....	.....	114.3	80.0	112

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices*—Continued.

Year.	FOOD—Continued.									
						Fish.				
	Bread, soda crackers.	Butter.	Cheese.	Coffee, Rio, fair.	Eggs.	Cod.	Mackerel, salt, shore, No. 1.	Mackerel, salt, shore, No. 2.	Mackerel, salt, shore, No. 3.	Flour, wheat.
1840	.....	85.7	90.0	78.3	.....	.....	79.7	123.5	110.0	.....
1841	.....	76.2	90.0	89.1	.....	.....	75.0	117.6	120.0	.....
1842	.....	83.3	70.0	76.1	.....	.....	56.3	70.6	80.0	.....
1843	.....	71.4	65.0	56.5	.....	.....	63.3	95.5	120.0	.....
1844	.....	71.4	50.0	56.5	.....	.....	59.4	88.2	110.0	.....
1845	80.0	71.4	53.8	56.5	.....	.....	81.3	123.5	137.4	.....
1846	80.0	92.9	75.0	65.2	.....	.....	57.0	73.5	77.4	.....
1847	80.0	85.7	70.0	65.2	.....	.....	79.7	97.1	85.0	.....
1848	80.0	81.0	65.0	60.9	.....	.....	56.3	70.6	67.4	.....
1849	80.0	85.7	70.0	50.0	.....	.....	75.0	82.4	70.0	.....
1850	93.3	81.0	60.0	65.2	.....	.....	63.3	95.5	100.0	.....
1851	93.3	83.3	52.5	87.0	.....	.....	62.5	76.5	102.4	.....
1852	93.3	90.5	65.0	69.6	.....	.....	56.3	82.4	115.0	.....
1853	93.3	128.6	85.0	71.7	.....	.....	71.9	111.8	150.0	.....
1854	93.3	81.0	105.0	87.0	.....	.....	93.8	144.1	100.0	.....
1855	93.3	116.7	95.0	73.9	.....	.....	118.8	129.4	125.0	.....
1856	90.0	121.4	85.0	87.0	.....	.....	81.3	94.1	120.0	.....
1857	83.0	111.9	97.5	87.0	61.5	.....	93.8	147.1	170.0	.....
1858	86.7	90.5	65.0	82.6	82.7	.....	96.9	147.1	170.0	.....
1859	93.3	111.9	97.5	93.5	119.2	.....	90.6	148.1	171.8	.....
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	133.3	81.0	100.0	100.0	69.2	125.0	53.1	52.9	55.0	103.0
1862	146.7	90.5	70.0	156.5	90.4	125.0	51.6	70.6	90.0	109.1
1863	160.0	116.7	110.0	243.5	76.9	150.0	87.5	108.8	130.0	.....
1864	146.7	145.2	140.0	293.5	111.5	200.0	187.5	235.3	.....	.....
1865	120.0	250.0	225.0	378.3	169.2	387.5	137.5	176.5	195.0	.....
1866	113.3	202.4	180.0	a 160.9	150.0	312.5	142.2	155.9	.....	197.0
1867	106.7	183.3	145.0	a 139.1	144.2	250.0	106.3	144.1	150.0	203.0
1868	106.7	202.4	145.0	a 113.0	173.1	250.0	106.3	152.9	.....	187.9
1869	100.0	221.4	190.0	a 76.1	159.6	200.0	143.8	135.3	.....	151.5
1870	113.3	178.6	175.0	a 80.4	180.8	200.0	132.5	114.7	.....	112.1
1871	120.0	178.6	140.0	a 91.3	128.8	175.0	70.3	85.3	125.0	124.2
1872	126.7	152.4	132.5	a 145.7	144.2	200.0	90.6	111.8	.....	133.3
1873	133.3	145.2	132.5	a 147.8	155.8	150.0	125.0	144.1	.....	136.4
1874	133.3	145.2	132.5	a 217.4	155.8	200.0	82.8	105.9	140.0	130.3
1875	120.0	173.8	150.0	a 160.9	128.8	250.0	101.6	120.6	150.0	121.2
1876	120.0	147.6	127.5	a 152.2	126.9	175.0	93.8	79.4	110.0	123.0
1877	120.0	150.0	142.5	173.9	113.5	175.0	103.1	147.1	160.0	135.8
1878	.....	150.0	127.5	154.3	92.3	150.0	112.5	94.1	100.0	115.2
1879	100.0	123.8	85.0	128.3	98.1	150.0	100.0	58.8	60.0	103.0
1880	106.7	157.1	125.0	134.8	84.6	150.0	87.5	82.4	80.0	112.1
1881	93.3	147.6	127.5	115.2	128.8	175.0	87.5	70.6	80.0	104.2
1882	100.0	176.2	127.5	91.3	109.6	250.0	112.5	129.4	160.0	106.1
1883	100.0	181.0	135.0	69.6	121.2	250.0	125.0	164.7	210.0	103.0
1884	106.7	154.8	127.5	106.5	117.3	200.0	87.5	223.5	70.0	90.9
1885	100.0	131.0	125.0	84.8	105.8	250.0	85.9	67.6	75.0	75.8
1886	106.7	150.0	97.5	71.7	100.0	200.0	137.5	147.1	.....	78.9
1887	106.7	131.0	127.5	128.3	125.0	250.0	109.4	164.7	220.0	72.7
1888	106.7	133.3	117.5	163.0	96.2	250.0	137.5	217.6	280.0	65.5
1889	100.0	138.1	115.0	147.8	88.5	250.0	175.0	294.1	340.0	89.7
1890	100.0	116.7	103.8	165.2	92.3	250.0	131.3	205.9	260.0	68.5
1891	100.0	128.6	95.0	165.2	109.6	312.5	150.0	164.7	230.0	72.1

a In gold.

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices*—Continued.

FOOD—Continued.

Year.	Flour, rye.	Fruit.			Lard.	Lard, pure leaf.	Meal, corn, yellow, kiln dried.	Meat.	
		Apples, dried.	Currants, Zante.	Raisins.				Bacon, clear.	Beef, loins.
1840	100.0	.....	183.3	59.8	66.7	85.6	93.4	93.0	.....
1841	78.1	.....	216.7	90.4	76.2	61.4	69.3	75.6	.....
1842	93.8	.....	141.7	45.7	52.4	44.0	72.3	49.4	.....
1843	81.3	.....	116.7	65.2	61.9	52.1	61.7	52.3	.....
1844	81.3	.....	133.3	87.0	54.8	50.9	60.2	58.1	.....
1845	84.4	.....	166.7	117.4	57.1	50.9	60.2	58.1	.....
1846	106.3	.....	183.3	87.0	76.2	57.9	96.4	64.0	.....
1847	96.9	.....	208.3	63.0	61.9	78.7	93.4	50.9	.....
1848	103.1	.....	158.3	56.5	61.9	56.7	78.3	43.6	.....
1849	79.7	.....	91.7	60.9	71.4	61.1	72.3	55.2	.....
1850	71.9	.....	104.2	119.6	61.9	55.6	76.7	52.3	.....
1851	89.0	.....	120.8	84.8	73.8	75.3	78.3	56.7	.....
1852	87.5	.....	83.3	70.7	85.7	85.6	84.3	106.2	.....
1853	112.5	.....	150.0	121.7	114.3	76.4	96.4	82.9	.....
1854	93.8	.....	300.0	113.0	95.2	58.6	93.4	72.7	.....
1855	168.8	.....	333.3	115.2	95.2	92.6	114.5	93.0	.....
1856	175.0	87.1	200.0	130.4	114.3	93.7	105.4	86.0	.....
1857	121.3	141.9	333.3	163.0	117.9	115.7	90.4	112.3	.....
1858	93.8	103.2	150.0	82.6	83.3	92.6	84.3	82.0	.....
1859	93.8	129.0	116.7	89.1	104.8	100.3	96.4	94.0	.....
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	92.5	77.4	75.0	89.1	95.2	84.3	84.3	64.0	88.9
1862	100.0	96.8	150.0	139.1	76.2	69.4	78.3	56.2	83.3
1863	118.8	83.9	175.0	152.2	88.1	88.0	108.4	60.5	94.4
1864	137.5	122.6	239.6	173.9	114.3	125.0	144.6	119.2	105.6
1865	212.5	200.0	341.7	254.3	195.2	187.5	212.0	170.0	194.4
1866	131.3	183.9	262.5	182.6	135.7	196.8	116.9	184.5	144.4
1867	170.0	129.0	208.3	154.3	111.9	122.7	126.5	133.7	166.7
1868	187.5	138.7	220.8	165.2	114.3	141.2	154.2	154.1	166.7
1869	173.8	.....	179.2	147.8	171.4	170.1	125.3	171.5	166.7
1870	132.5	141.9	183.3	143.5	150.0	140.1	122.9	165.7	166.7
1871	137.5	90.3	166.7	87.0	138.1	108.8	102.4	109.0	166.7
1872	132.5	141.9	133.3	113.0	85.7	83.8	103.4	77.4	150.0
1873	155.0	109.7	108.3	87.0	72.6	76.4	91.6	97.7	150.0
1874	137.5	109.7	102.1	104.3	78.6	90.7	108.4	100.0	144.4
1875	125.0	109.7	100.0	123.9	127.4	133.8	114.5	134.9	144.4
1876	131.3	154.8	122.9	119.6	115.5	122.9	92.8	131.9	133.3
1877	127.5	74.2	102.1	73.9	104.8	97.5	86.7	96.3	122.2
1878	97.5	83.9	95.8	81.5	76.2	74.7	78.3	72.2	122.2
1879	76.3	51.6	62.5	69.6	54.8	63.6	67.5	68.4	111.1
1880	137.5	87.1	108.3	95.7	75.2	69.5	79.5	80.0	111.1
1881	133.8	64.5	91.7	82.6	90.5	97.1	80.7	97.4	116.7
1882	121.3	87.1	93.8	87.0	90.5	120.9	81.9	122.3	116.7
1883	93.8	96.8	93.8	87.0	92.9	107.4	94.0	127.1	105.6
1884	88.8	96.8	83.3	78.3	77.4	83.0	81.9	97.0	122.2
1885	85.0	51.6	62.5	104.3	69.5	69.8	78.3	80.9	111.1
1886	88.8	.....	104.2	126.1	60.3	60.6	74.7	66.5	105.6
1887	72.5	64.5	85.4	84.8	62.9	67.1	68.7	82.7	100.0
1888	93.8	58.1	97.9	97.8	74.8	76.2	75.9	93.7	100.0
1889	85.0	58.1	62.5	97.8	73.3	74.4	75.9	82.1	111.1
1890	81.3	64.5	79.2	95.7	53.8	59.0	63.9	62.3	105.6
1891	107.5	116.1	79.2	91.3	54.3	60.6	78.3	76.0	105.6

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices*—Continued.

FOOD—Continued.

Year.	Meat.						Milk, fresh.	Molasses.	
	Beef, salt, mess.	Beef, ribs.	Ham, sugar-cured.	Lamb.	Mutton.	Pork, salt, mess.		New Orleans, prime.	Porto Rico, best.
1840	108.7	.....	144.1	.....	.....	86.4	.....	54.7	78.9
1841	84.8	.....	132.1	.....	.....	77.3	.....	52.8	76.3
1842	71.7	.....	90.0	.....	.....	57.6	.....	47.2	63.2
1843	58.7	.....	90.0	.....	.....	56.8	.....	37.7	55.3
1844	58.7	.....	96.0	.....	.....	60.6	.....	54.7	65.8
1845	45.9	.....	102.0	.....	.....	63.6	.....	58.5	84.2
1846	75.6	.....	108.0	.....	.....	81.8	.....	56.6	68.4
1847	70.6	.....	97.0	.....	.....	62.9	.....	66.0	76.3
1848	78.3	.....	62.4	.....	.....	72.7	.....	54.7	65.8
1849	97.8	.....	75.6	.....	.....	69.4	.....	54.7	65.8
1850	89.1	.....	77.4	.....	.....	72.0	.....	50.0	78.9
1851	87.0	.....	98.4	.....	.....	77.3	.....	49.1	78.9
1852	82.6	.....	111.5	.....	.....	93.2	.....	58.5	73.7
1853	108.7	.....	115.6	.....	.....	116.7	.....	58.5	76.3
1854	121.7	.....	105.0	.....	.....	83.3	.....	52.8	71.1
1855	134.8	.....	114.0	.....	.....	77.3	.....	50.9	73.7
1856	104.3	.....	104.0	.....	.....	103.0	.....	92.5	115.8
1857	129.1	.....	96.0	.....	.....	123.5	.....	150.9	164.5
1858	104.3	.....	100.0	.....	.....	89.4	.....	66.0	78.9
1859	87.0	.....	100.0	.....	.....	106.1	.....	69.8	86.8
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	91.3	93.3	80.0	72.0	110.0	101.5	100.0	69.8	92.1
1862	104.3	86.7	106.8	88.0	100.0	75.0	80.0	103.8	105.3
1863	108.7	93.3	195.1	.....	100.0	86.4	.....	105.7	126.3
1864	106.5	106.7	256.9	128.0	120.0	118.2	.....	132.1	171.1
1865	165.2	186.7	288.1	112.0	190.0	212.1	.....	283.0	289.5
1866	208.7	166.7	298.3	152.0	160.0	186.4	130.0	235.8	157.9
1867	178.3	160.0	280.3	128.0	170.0	130.3	170.0	166.0	171.1
1868	173.9	166.7	218.0	208.0	170.0	137.9	160.0	169.8	171.1
1869	182.6	166.7	222.1	136.0	170.0	163.6	165.0	150.9	157.9
1870	156.5	166.7	246.1	144.0	180.0	172.7	140.0	147.2	184.2
1871	165.2	166.7	210.1	176.0	170.0	117.4	130.0	139.6	157.9
1872	100.0	153.3	162.1	152.0	180.0	87.9	130.0	101.9	100.0
1873	115.2	146.7	175.0	144.0	160.0	83.3	130.0	120.8	144.7
1874	100.0	140.0	159.7	136.0	160.0	99.4	130.0	135.8	144.7
1875	100.0	140.0	164.0	128.0	160.0	121.2	130.0	118.9	144.7
1876	95.7	133.3	172.9	120.0	160.0	126.5	125.0	103.8	131.6
1877	126.1	120.0	148.1	96.0	150.0	107.3	125.0	101.9	144.7
1878	104.3	120.0	124.2	96.0	140.0	75.8	120.0	75.5	94.7
1879	82.6	106.7	112.2	100.0	125.0	46.1	120.0	67.9	105.3
1880	91.3	106.7	119.0	104.0	120.0	77.3	100.0	.....	.....
1881	73.9	113.3	130.3	120.0	120.0	84.8	110.0	81.1	131.6
1882	104.3	113.3	161.1	112.0	130.0	107.6	110.0	94.3	131.6
1883	108.7	106.7	163.4	112.0	130.0	112.1	110.0	113.2	105.3
1884	95.7	126.7	161.9	112.0	140.0	87.9	110.0	94.3	94.7
1885	95.7	113.3	128.5	120.0	130.0	77.3	110.0	90.6	92.1
1886	82.6	106.7	121.7	108.0	130.0	60.6	110.0	83.0	94.7
1887	60.9	100.0	137.8	120.0	130.0	75.8	100.0	75.5	78.9
1888	65.2	100.0	134.8	112.0	130.0	93.9	100.0	81.1	105.3
1889	60.9	113.3	138.8	104.0	125.0	84.8	100.0	75.5	94.7
1890	56.5	106.7	130.0	112.0	140.0	62.1	100.0	79.2	110.5
1891	60.9	106.7	122.2	102.0	130.0	73.0	100.0	67.9	94.7

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices*—Continued.

FOOD—Continued.

Year.	Rice, Carolina, prime.	Salt.					Spices.		Starch, corn.
		Ashton's.	Ashton's Liverpool, fine.	Coarse, solar.	Fine, boiled.	Turk's Island.	Nutmegs.	Pepper, whole, Sumatra.	
1840	64.7	74.4	74.8	99.6	64.0	160.0	202.4	89.6	.....
1841	74.8	71.8	72.7	99.6	64.0	150.0	190.5	95.5	.....
1842	64.9	110.3	110.4	99.6	64.0	130.0	208.3	83.6	.....
1843	58.8	79.5	79.2	74.9	68.0	142.5	190.5	101.5	.....
1844	64.7	71.8	71.4	74.9	68.0	155.0	185.7	116.4	.....
1845	64.7	70.8	71.4	74.9	60.0	120.0	250.0	125.4	.....
1846	123.5	71.8	72.7	97.4	76.0	140.0	333.3	125.4	.....
1847	97.1	66.7	66.2	112.4	98.6	125.0	321.4	83.6	.....
1848	76.5	74.4	74.0	79.4	74.4	130.0	297.6	74.6	.....
1849	79.4	64.1	64.9	74.9	61.6	105.0	196.4	64.2	.....
1850	82.4	74.4	75.2	85.0	95.2	115.0	257.1	89.6	.....
1851	82.4	82.1	83.1	85.0	100.0	115.0	250.0	92.5	111.8
1852	82.4	71.8	72.7	85.0	80.0	100.0	208.3	110.4	111.4
1853	100.0	102.6	103.9	85.0	94.4	135.0	214.3	125.4	118.4
1854	105.9	66.7	93.5	85.0	107.2	225.0	273.8	125.4	118.8
1855	105.9	81.0	83.1	85.0	104.0	250.0	226.2	131.3	124.2
1856	129.4	76.9	77.9	85.0	112.8	125.0	214.3	122.4	130.4
1857	102.9	78.5	79.2	85.0	100.0	110.0	196.4	143.2	118.4
1858	88.2	66.7	66.2	85.0	101.6	87.5	125.0	119.4	96.1
1859	88.2	70.8	71.7	100.0	72.0	85.0	119.0	107.5	100.4
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.4
1861	91.2	82.1	83.1	117.6	100.0	85.0	90.5	95.5	100.4
1862	182.4	87.2	88.3	138.6	112.0	100.0	142.9	185.1	94.1
1863	.....	110.3	111.7	138.6	159.2	150.0	190.5	274.6	111.4
1864	.....	143.6	145.5	183.5	216.0	240.0	214.3	346.3	129.4
1865	282.4	243.6	246.8	157.3	180.8	330.0	428.6	537.3	176.4
1866	282.4	207.7	202.6	176.0	188.0	210.0	a 208.3	a 274.6	152.4
1867	208.8	141.0	a 142.9	176.0	188.0	280.0	a 209.5	a 256.7	152.4
1868	202.4	133.3	a 135.1	176.0	188.0	240.0	a 208.3	a 280.6	152.4
1869	205.9	128.2	a 129.9	176.0	188.0	240.0	a 219.0	a 280.6	152.4
1870	170.6	128.2	a 129.9	164.8	172.0	205.0	a 226.2	a 304.5	141.2
1871	170.6	166.7	161.0	149.8	160.0	210.0	a 190.5	a 191.0	141.2
1872	205.9	143.6	145.5	112.4	112.0	225.0	a 232.1	a 209.0	129.4
1873	194.1	153.8	148.1	76.4	112.0	150.0	a 219.0	a 203.0	129.4
1874	200.0	153.8	135.1	67.4	128.0	125.0	a 238.1	a 262.7	129.4
1875	188.2	141.0	142.9	61.4	112.0	125.0	a 250.0	a 244.8	129.4
1876	167.6	128.2	124.7	59.9	72.0	105.0	a 238.1	a 170.1	123.5
1877	152.9	128.2	129.9	54.7	68.0	135.0	a 202.4	a 167.3	123.5
1878	152.9	128.2	129.9	56.2	60.0	112.5	a 190.5	a 149.3	120.6
1879	150.0	128.2	129.9	60.7	100.0	120.0	a 192.9	a 140.2	102.9
1880	176.5	128.2	129.9	62.2	60.0	125.0	214.3	170.1	103.9
1881	164.7	128.2	129.9	60.7	60.0	110.0	200.0	167.2	105.9
1882	164.7	128.2	129.9	62.9	60.0	150.0	190.5	209.0	106.9
1883	141.2	128.2	129.9	64.4	60.0	150.0	181.0	211.9	108.9
1884	141.2	128.2	129.9	59.9	60.0	115.0	135.7	161.2	105.9
1885	144.1	128.2	129.9	56.2	56.0	110.0	107.1	173.1	94.1
1886	126.5	128.2	129.9	53.9	52.0	100.0	103.6	182.1	94.1
1887	108.8	128.2	129.9	53.9	52.0	150.0	115.5	191.0	82.3
1888	108.8	128.2	129.9	53.9	53.0	150.0	125.7	185.1	82.3
1889	120.6	128.2	129.9	53.2	52.0	140.0	131.0	177.6	82.3
1890	126.5	128.2	116.9	55.4	52.0	115.0	148.8	152.2	70.6
1891	126.5	128.2	116.9	55.4	52.0	125.0	142.9	107.5	82.3

a In gold.

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices*—Continued.

FOOD—Concluded.

Year.	Starch, corn.	Sugar.					Tallow, prime, city, in hogsheads.	Vegetables.	
		Brown.	Cut.	Fair refining.	Havana brown.	Refined, crushed and granulated.		Fresh, potatoes, white.	Fresh, potatoes, white.
1840	.....	.....	.....	84.5	87.5	120.0	87.8	.....	.....
1841	.....	.....	.....	103.4	96.3	112.5	90.2	.....	.....
1842	.....	.....	.....	81.0	84.4	105.0	78.0	.....	.....
1843	.....	.....	.....	81.0	71.9	102.5	74.4	.....	.....
1844	.....	.....	.....	94.8	85.9	117.5	65.9	.....	.....
1845	.....	.....	.....	79.3	91.4	112.5	68.3	.....	.....
1846	.....	.....	.....	96.2	95.3	125.0	73.2	.....	.....
1847	.....	.....	.....	96.6	89.1	100.0	78.0	.....	.....
1848	.....	.....	.....	62.1	68.8	87.5	78.0	.....	.....
1849	.....	.....	.....	55.2	60.9	85.0	78.0	.....	.....
1850	.....	.....	.....	65.5	75.0	83.8	73.2	.....	.....
1851	.....	.....	.....	65.5	78.1	87.5	73.2	.....	181.3
1852	.....	.....	.....	58.6	64.1	75.0	70.7	.....	150.0
1853	.....	.....	.....	62.1	73.4	83.8	97.6	.....	137.5
1854	.....	.....	.....	60.3	73.4	83.8	104.9	.....	175.0
1855	.....	.....	.....	58.6	69.5	80.0	122.0	.....	137.5
1856	.....	.....	.....	101.7	93.8	102.5	126.8	.....	175.0
1857	.....	.....	.....	124.1	125.0	126.3	109.8	.....	168.8
1858	.....	.....	.....	82.8	89.1	103.8	90.2	.....	131.3
1859	.....	.....	.....	94.8	95.3	98.8	104.9	.....	125.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	94.1	100.0	97.6	74.1	72.7	83.8	82.9	114.3	106.3
1862	94.1	96.4	107.3	106.9	97.7	110.0	92.7	128.6	106.3
1863	111.8	.....	.....	131.0	121.1	132.5	101.2	142.9	125.0
1864	152.9	.....	.....	165.5	160.9	168.8	125.6	171.4	200.0
1865	152.9	.....	.....	244.8	239.1	285.0	175.6	157.1	193.8
1866	141.2	192.9	172.0	158.6	153.9	186.0	122.0	157.1	118.8
1867	152.9	.....	.....	134.5	.....	150.0	111.0	257.1	187.5
1868	152.9	.....	.....	158.6	.....	167.5	106.1	185.7	200.0
1869	141.2	257.1	204.9	155.2	.....	152.5	117.1	114.3	156.3
1870	141.2	.....	.....	144.8	.....	148.8	98.8	157.1	193.8
1871	129.4	142.9	.....	127.6	.....	141.3	87.8	171.4	137.5
1872	129.4	.....	.....	125.9	.....	123.8	80.0	171.4	125.0
1873	129.4	.....	.....	125.9	.....	122.5	85.4	114.3	125.0
1874	129.4	.....	.....	101.7	.....	105.0	75.6	128.6	143.8
1875	129.4	128.6	107.3	110.3	.....	106.3	87.2	135.7	106.3
1876	123.5	117.9	107.3	110.3	.....	103.8	95.1	185.7	152.5
1877	120.1	135.7	114.6	131.0	.....	117.5	84.1	100.0	125.0
1878	102.9	107.1	96.3	101.7	.....	86.3	74.4	128.6	175.0
1879	102.9	98.2	89.0	87.9	.....	88.8	64.6	100.0	118.8
1880	102.9	110.7	95.1	105.2	.....	97.5	65.9	114.3	137.5
1881	102.9	100.0	93.9	106.9	.....	92.5	59.1	257.1	193.8
1882	101.4	100.0	98.8	103.4	.....	93.8	80.5	135.7	156.3
1883	106.7	96.4	87.8	95.7	.....	87.5	78.0	92.9	135.0
1884	94.1	98.6	79.3	84.5	.....	78.8	75.6	92.9	112.5
1885	94.1	87.9	65.9	65.5	.....	58.8	59.1	114.3	112.5
1886	78.2	73.2	67.1	76.7	.....	68.1	47.6	100.0	118.8
1887	78.2	67.9	63.4	63.8	.....	56.9	40.2	142.9	168.8
1888	78.4	82.1	78.0	70.7	.....	71.3	42.7	100.0	131.3
1889	65.4	82.1	80.5	67.2	.....	72.5	61.0	121.4	168.8
1890	67.7	80.4	74.4	67.2	.....	65.0	43.3	157.1	141.3
1891	73.6	75.0	62.2	62.9	.....	59.4	45.1	100.0	100.0

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices*—Continued.

CLOTHS AND CLOTHING.

Year.	Blankets, 11-4, 5 pounds to the pair.		Broadcloths.		Calico, Cocheco prints.	Carpets.			Cassimeres, all wool, 2-4, 7-ounce, Harris double and twist.
	Cotton warp, cotton and wool filling.	Cotton warp, all wool filling.	First quality, black, 54-inch, made from XXX wool.	Second quality, black, 54-inch, made from XX wool.		Brussels, 5-frame, Bigelow.	Ingrain, 2-ply, Lowell.	Wilton, 5-frame, Bigelow.	
1840	.....	.....	159.9	161.3	126.3	.....	133.3	.....	.....
1841	.....	.....	190.4	210.0	121.1	.....	118.9	.....	80.0
1842	.....	.....	158.9	156.7	115.8	.....	120.1	.....	80.0
1843	.....	.....	190.4	166.7	105.3	.....	98.9	.....	88.9
1844	.....	.....	203.0	200.0	115.8	.....	98.8	.....	88.9
1845	.....	.....	177.7	160.0	115.8	.....	108.1	.....	88.9
1846	.....	.....	155.3	146.0	115.8	.....	106.6	.....	88.9
1847	.....	.....	144.2	138.7	110.5	.....	101.2	.....	88.9
1848	.....	.....	111.2	116.7	105.3	.....	106.1	.....	88.9
1849	.....	.....	111.2	109.3	94.7	.....	98.1	.....	88.9
1850	.....	.....	111.2	124.0	100.0	92.3	98.8	.....	88.9
1851	.....	.....	127.9	128.7	105.3	96.2	104.5	.....	88.9
1852	.....	.....	122.3	124.0	100.0	96.2	92.7	.....	85.3
1853	.....	.....	133.5	124.0	110.5	96.2	105.8	.....	85.3
1854	.....	.....	111.2	102.0	110.5	107.7	126.8	.....	85.3
1855	.....	.....	111.2	102.0	105.3	96.9	106.3	.....	85.3
1856	.....	.....	122.3	116.7	100.0	100.0	116.4	.....	85.3
1857	.....	.....	111.2	100.0	105.3	105.8	113.0	.....	96.1
1858	.....	.....	111.2	109.3	100.0	92.3	102.2	.....	96.1
1859	.....	.....	100.0	102.0	100.0	98.1	95.6	.....	96.1
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	91.7	92.9	100.0	102.0	94.7	92.3	101.4	100.0	100.0
1862	108.3	107.1	111.2	131.3	131.6	100.0	106.6	105.4	111.1
1863	120.0	111.4	130.5	156.7	.....	134.6	149.5	151.4	126.9
1864	120.0	114.3	223.4	253.3	421.1	165.4	179.4	173.0	126.9
1865	.....	121.4	174.1	200.0	289.5	269.2	260.6	202.7	126.9
1866	.....	107.1	162.9	200.0	221.1	211.5	241.6	202.7	126.9
1867	.....	100.0	141.6	146.0	168.4	211.5	239.6	202.7	126.9
1868	.....	92.9	140.1	153.3	142.1	184.6	178.9	189.2	116.2
1869	.....	94.3	123.4	142.7	147.4	192.3	172.9	202.7	105.9
1870	.....	94.3	123.4	142.7	136.8	192.3	165.1	162.2	105.9
1871	.....	97.1	122.3	142.7	121.1	153.8	152.7	162.2	116.1
1872	.....	111.4	122.3	142.7	126.3	165.4	171.1	175.7	116.1
1873	.....	121.4	128.4	142.7	126.3	161.5	159.0	175.7	112.1
1874	.....	114.3	128.4	142.7	100.0	153.8	145.1	175.7	109.4
1875	.....	114.3	128.4	142.7	100.0	153.8	131.4	175.7	105.6
1876	.....	102.9	128.4	142.7	63.2	153.8	130.7	162.2	84.4
1877	.....	91.4	110.7	138.0	78.9	134.6	116.0	154.1	84.4
1878	.....	85.7	99.0	122.0	68.4	119.2	106.8	154.1	84.4
1879	83.3	85.7	111.2	131.3	68.4	109.6	88.6	137.8	.....
1880	93.3	95.7	108.6	128.7	84.2	105.8	117.8	148.6	.....
1881	88.3	91.4	108.6	128.7	73.7	111.5	106.1	132.4	.....
1882	83.3	87.1	106.6	128.7	68.4	103.8	110.8	116.2	.....
1883	76.7	82.9	102.0	122.7	68.4	103.8	110.1	121.6	.....
1884	68.3	77.1	100.0	116.7	63.2	98.1	98.3	110.8	94.0
1885	75.0	78.6	100.0	116.7	57.9	92.3	81.8	108.1	83.9
1886	80.0	82.9	100.0	116.7	63.2	86.5	90.3	108.1	83.9
1887	76.7	82.9	100.0	116.7	50.0	86.5	86.0	108.1	82.1
1888	76.7	82.9	100.0	116.7	68.4	84.6	78.5	108.1	82.1
1889	80.0	85.7	100.0	116.7	68.4	82.7	75.1	108.1	82.1
1890	76.7	82.9	100.0	116.7	68.4	82.7	75.0	108.1	78.5
1891	76.7	82.9	100.0	116.7	68.2	80.4	78.4	113.5	78.6

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices*—Contd.

CLOTHS AND CLOTHING—Continued.

Year.	Cassimeres, all wool.			Checks, black and white, all wool, 8-4, 7-ounce, Harris.	Cotton, upland, middling.	Denims, Amoskeag.	Drillings, 30-inch, Pepperell.	Hides, dry, Buenos Ayres.	Horse blankets, 6 pounds, all wool.
	8-4, 12-ounce, Harris double and twist.	8-4, 12-ounce, Harris silk mixed.	Fancy, 8-4, light weight.						
1840	.....	.....	.....	.....	89.8	.....	.....	62.9	.....
1841	.....	.....	.....	.....	83.0	.....	.....	62.9	.....
1842	.....	.....	.....	.....	75.0	.....	.....	55.1	.....
1843	.....	.....	.....	.....	64.8	.....	.....	53.8	.....
1844	.....	.....	.....	.....	78.4	82.8	.....	58.7	.....
1845	.....	.....	.....	.....	46.6	89.7	.....	56.4	.....
1846	.....	.....	.....	.....	68.2	89.7	.....	50.8	.....
1847	.....	.....	.....	.....	97.7	96.6	88.9	51.4	.....
1848	.....	.....	.....	.....	78.4	86.2	82.7	40.6	.....
1849	.....	.....	.....	.....	62.5	82.8	72.2	44.1	.....
1850	.....	.....	.....	.....	105.7	89.7	86.1	53.8	.....
1851	.....	.....	.....	.....	127.3	89.7	97.2	56.8	.....
1852	100.0	.....	.....	.....	77.3	82.8	75.0	61.4	.....
1853	100.0	.....	.....	90.0	92.0	79.3	86.1	72.7	.....
1854	100.0	.....	.....	90.0	100.0	72.4	86.1	86.9	.....
1855	100.0	100.0	.....	90.0	77.3	86.2	86.1	95.0	.....
1856	100.0	100.0	107.4	90.0	84.1	89.7	88.9	110.3	.....
1857	100.0	100.0	105.4	90.0	119.3	110.3	97.2	129.0	.....
1858	100.0	100.0	100.0	90.0	81.8	110.3	100.0	101.4	.....
1859	100.0	100.0	.....	100.0	110.2	100.0	97.2	108.4	.....
1860	100.0	100.0	.....	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	100.0	.....	100.0	109.1	103.4	97.2	82.3	91.9
1862	109.1	107.1	.....	108.3	327.3	124.1	146.0	101.5	104.1
1863	143.9	127.2	162.2	145.8	613.6	258.6	308.8	118.0	108.1
1864	161.9	141.4	193.2	145.8	736.4	379.3	449.2	137.2	109.5
1865	197.9	183.8	259.2	166.7	1,090.9	463.8	673.5	116.9	121.6
1866	179.9	162.6	.....	166.7	468.2	374.1	365.0	113.2	110.8
1867	161.9	141.4	.....	128.6	322.7	269.0	252.7	115.2	101.4
1868	161.9	141.4	150.6	128.6	152.3	172.4	168.4	119.2	94.6
1869	125.9	127.2	.....	128.6	236.4	186.2	185.3	120.4	100.0
1870	125.9	127.2	.....	128.6	230.7	184.5	185.3	111.9	95.9
1871	143.9	127.2	149.2	138.5	138.6	165.5	151.6	115.1	100.0
1872	161.9	141.4	.....	138.5	185.2	155.2	162.8	122.6	112.2
1873	143.9	113.1	.....	138.5	186.4	150.0	168.4	123.8	121.6
1874	143.9	127.2	150.5	118.8	147.7	141.4	135.9	119.0	102.7
1875	125.9	120.2	136.6	118.8	130.7	125.9	127.1	104.1	112.2
1876	108.0	113.1	124.1	89.1	120.5	122.4	112.3	89.9	100.0
1877	108.0	91.9	109.0	89.1	114.8	101.7	97.5	96.7	91.9
1878	99.0	77.8	.....	89.1	102.3	103.4	94.6	85.1	86.5
1879	.....	.....	98.0	.....	86.4	100.0	83.7	86.2	81.1
1880	.....	.....	110.0	.....	115.9	100.0	103.4	98.9	106.8
1881	.....	.....	105.8	.....	108.0	100.0	94.6	97.4	100.0
1882	.....	.....	110.5	.....	108.0	105.2	94.6	100.5	97.3
1883	89.0	.....	116.7	.....	92.6	96.3	97.5	96.6	93.2
1884	89.0	90.9	94.7	117.5	94.9	87.9	82.7	97.9	81.1
1885	89.0	83.9	99.6	97.9	100.6	84.5	76.8	93.9	74.3
1886	89.0	90.9	100.6	88.1	83.5	81.0	73.9	86.2	87.8
1887	89.0	90.0	106.8	87.2	86.4	87.9	73.9	78.6	83.8
1888	89.0	89.0	93.9	87.2	96.0	86.2	79.8	70.1	79.7
1889	89.0	76.1	83.0	87.2	86.4	84.5	79.8	66.3	83.8
1890	89.0	73.4	96.9	87.2	93.2	81.0	79.8	58.1	84.5
1891	89.0	69.2	99.6	82.3	84.7	81.0	76.8	55.2	81.1

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices*—Continued.

CLOTHS AND CLOTHING—Concluded.

Year.	Leather, harness.	Print cloths.		Shawls, standard, 72 by 144 inches, weighing 42 ounces, made of XX Ohio fleece wool.	Sheetings, brown, 4-4, Atlantic A.	Shirtings, bleached, 4-4, New York Mills.	Sole leather, first quality, medium weight, Buenos Ayres.	Tickings, Amoskeag, A. C. A.	Wool, Ohio, medium fleece, scoured.	Wool, Ohio, fine fleece, scoured.
		28-inch, 64 by 64, Metacomet.	28-inch, 7 yards to the pound, standard.							
1840	62.9	.....	.....	.....	.....	.....	96.6	102.9	.....	.....
1841	68.6	.....	.....	.....	.....	.....	98.6	100.0	.....	.....
1842	65.7	.....	.....	.....	.....	.....	87.4	94.1	.....	.....
1843	68.6	.....	.....	.....	.....	.....	79.5	82.4	.....	.....
1844	62.9	.....	.....	.....	.....	.....	79.7	91.2	.....	.....
1845	62.9	.....	.....	.....	.....	.....	70.9	91.2	.....	.....
1846	62.9	.....	.....	.....	.....	.....	69.7	94.1	.....	.....
1847	68.6	107.0	106.7	.....	91.1	93.5	81.9	94.1	.....	.....
1848	68.6	86.0	80.0	.....	88.1	93.5	73.2	94.1	.....	.....
1849	68.6	76.7	73.3	.....	74.9	90.3	79.5	88.2	.....	.....
1850	68.6	95.3	88.9	.....	88.1	96.8	76.9	88.2	81.0	81.2
1851	71.4	81.4	77.8	114.4	96.9	96.8	70.7	91.2	87.3	83.4
1852	71.4	88.4	84.4	115.1	77.8	93.5	70.9	85.3	79.9	79.8
1853	74.3	111.6	111.1	114.0	89.6	93.5	88.0	94.1	113.0	104.4
1854	80.0	100.0	102.2	114.0	94.0	96.8	102.6	94.1	91.5	89.0
1855	85.7	95.3	97.8	114.0	91.1	96.8	104.9	88.2	79.6	83.7
1856	94.3	95.3	95.6	117.0	88.1	96.8	123.4	94.1	96.1	102.3
1857	114.3	107.0	104.4	100.0	100.0	96.8	135.1	102.9	102.5	99.5
1858	88.6	97.7	97.8	100.0	100.0	96.8	111.8	105.9	79.2	80.5
1859	100.0	102.3	102.2	100.0	96.9	96.8	115.1	97.1	100.4	106.6
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	94.3	76.7	80.0	103.4	102.9	96.8	90.1	95.6	81.7	80.7
1862	94.3	155.8	158.3	102.2	164.5	109.7	108.6	122.1	107.7	91.7
1863	108.6	260.2	257.8	149.7	356.3	209.7	140.3	266.2	166.9	147.[illegible]
1864	142.9	593.0	524.4	185.8	504.6	266.6	181.7	.....	195.8	172.[illegible]
1865	171.4	360.5	337.8	159.4	712.5	411.3	169.9	451.5	180.6	162.[illegible]
1866	148.6	267.4	257.8	156.9	391.5	320.5	162.2	463.2	138.7	126.[illegible]
1867	145.7	165.1	160.0	148.7	261.3	260.8	141.7	341.2	112.3	110.5
1868	137.1	176.7	157.8	107.3	178.1	182.6	129.1	222.1	90.6	96.6
1869	134.3	160.5	155.6	107.3	190.0	179.3	140.7	182.4	104.6	99.[illegible]
1870	131.4	114.0	115.6	103.7	190.0	146.7	137.7	188.2	97.9	97.[illegible]
1871	125.7	137.2	133.3	103.7	154.4	130.4	133.1	163.2	115.5	104.[illegible]
1872	117.1	148.8	142.2	103.7	160.4	135.6	131.6	160.3	155.8	152.[illegible]
1873	125.7	111.6	117.8	101.7	166.3	135.6	135.4	152.9	120.4	116.[illegible]
1874	120.0	102.3	100.0	97.0	142.5	123.9	135.6	144.1	117.6	112.[illegible]
1875	105.7	95.3	91.1	97.0	124.8	97.8	130.3	132.4	112.3	102.[illegible]
1876	102.9	69.8	65.6	99.1	112.9	91.3	117.7	116.2	95.4	84.[illegible]
1877	100.0	81.4	75.6	99.1	106.9	84.8	117.8	91.2	94.0	88.[illegible]
1878	100.0	64.0	62.2	97.0	98.0	75.0	98.5	88.2	88.7	72.[illegible]
1879	91.4	76.7	74.4	103.7	83.1	68.5	105.7	82.4	81.3	70.[illegible]
1880	117.1	74.4	71.1	108.7	106.9	84.8	120.3	88.2	118.0	100.[illegible]
1881	114.3	73.3	70.0	106.0	100.9	81.5	116.4	94.1	102.5	93.[illegible]
1882	108.6	72.1	68.4	106.0	103.9	84.8	117.1	97.1	101.4	88.[illegible]
1883	102.9	67.4	64.4	103.2	95.0	78.2	116.0	91.2	95.4	83.[illegible]
1884	102.9	61.6	57.8	97.8	86.1	68.5	119.7	76.4	83.1	75.[illegible]
1885	97.1	55.8	53.3	97.8	86.1	64.2	111.4	69.1	74.6	69.[illegible]
1886	97.1	65.1	57.8	97.8	80.1	66.8	108.1	66.2	80.3	72.[illegible]
1887	97.1	60.5	57.8	97.8	80.1	69.9	100.1	76.5	85.9	71.[illegible]
1888	94.3	74.4	71.1	97.8	86.1	69.9	95.2	75.0	77.1	66.[illegible]
1889	94.3	73.3	70.0	97.8	83.1	68.5	89.6	70.6	85.9	71.[illegible]
1890	85.7	62.8	60.0	96.0	83.1	70.1	89.7	70.6	83.5	71.[illegible]
1891	85.7	54.7	51.7	95.0	83.1	71.7	87.0	70.6	81.7	69.[illegible]

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices*—Continued.

FUEL AND LIGHTING.

Year.	Candles, best adamantine.	Coal, anthracite.							Coal, bituminous.	Matches, 8-card.
		Chestnut.	Egg.	F. lump.	Grate.	Pea.	S. lump.	Stove.		
1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	395.8
1841	.....	.....	.....	146.7	.....	.....	.....	115.4	.....	364.6
1842	.....	.....	.....	146.7	.....	.....	.....	115.4	.....	343.8
1843	.....	.....	.....	.....	.....	83.3	.....	.....	.....	291.7
1844	.....	.....	98.7	80.0	101.4	80.0	.....	83.3	.....	275.0
1845	.....	.....	.....	.....	.....	.....	.....	.....	.....	239.6
1846	.....	.....	.....	.....	.....	100.0	.....	.....	.....	187.5
1847	92.6	.....	121.7	120.0	121.6	91.7	.....	102.6	.....	125.0
1848	103.7	.....	115.1	110.0	114.9	.....	.....	92.9	.....	100.0
1849	100.0	.....	.....	.....	.....	.....	.....	.....	.....	100.0
1850	111.1	.....	.....	.....	.....	96.7	.....	.....	.....	100.0
1851	122.2	.....	96.1	94.7	98.6	83.3	.....	85.9	.....	100.0
1852	111.1	.....	85.5	84.0	89.2	.....	101.3	83.3	.....	100.0
1853	103.7	.....	101.3	98.7	104.1	103.3	.....	100.0	.....	100.0
1854	100.0	.....	105.3	101.3	108.1	131.7	104.0	103.8	.....	100.0
1855	96.3	.....	127.6	121.3	129.7	143.3	124.0	126.9	.....	100.0
1856	100.0	.....	139.5	133.3	140.5	123.3	136.0	138.5	.....	100.0
1857	114.8	.....	121.1	113.3	120.3	93.3	116.0	120.5	120.0	100.0
1858	96.3	112.7	117.1	112.0	114.9	.....	112.0	117.9	120.0	100.0
1859	96.3	100.0	102.6	92.0	101.4	.....	97.3	105.1	94.8	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	96.3	98.4	105.3	101.3	116.2	91.7	101.3	116.7	108.0	100.0
1862	92.6	95.2	97.4	106.7	108.1	76.7	100.0	98.7	97.0	100.0
1863	96.3	92.1	98.7	.....	102.7	.....	.....	100.0	160.0	100.0
1864	100.0	198.4	230.3	.....	216.2	.....	.....	243.6	173.0	100.0
1865	148.1	269.8	250.0	.....	243.2	283.3	.....	243.6	256.2	208.3
1866	122.2	325.4	302.6	280.0	304.1	.....	293.3	301.3	200.0	395.8
1867	111.1	182.5	164.5	.....	162.2	.....	.....	179.5	189.0	385.4
1868	111.1	.....	.....	.....	.....	.....	.....	.....	170.0	375.0
1869	111.1	.....	.....	.....	.....	.....	.....	.....	155.0	354.2
1870	111.1	.....	.....	.....	.....	.....	.....	.....	145.0	333.3
1871	103.7	136.5	121.1	113.3	118.9	.....	113.3	130.8	157.0	302.1
1872	103.7	158.7	138.2	120.0	135.1	.....	122.7	153.8	140.0	270.8
1873	103.7	138.1	121.1	110.7	117.6	.....	113.3	129.5	127.0	250.0
1874	103.7	160.3	142.1	134.7	141.9	.....	137.3	146.2	141.0	239.6
1875	92.6	169.8	155.3	148.0	155.4	.....	150.7	154.1	133.0	239.6
1876	81.5	157.1	148.7	134.7	141.9	.....	137.3	156.4	115.0	229.2
1877	77.8	122.2	85.5	80.0	85.1	.....	81.3	105.1	106.0	229.2
1878	70.4	96.8	73.7	70.7	71.6	.....	70.7	79.5	85.0	218.8
1879	63.0	103.2	82.9	84.0	85.1	58.3	84.0	94.9	89.6	208.3
1880	59.3	112.7	80.3	80.0	81.1	108.3	80.0	92.3	100.0	208.3
1881	59.3	125.4	106.6	102.7	104.1	.....	102.7	110.3	104.0	208.3
1882	66.7	125.4	102.6	100.0	101.4	100.0	100.0	103.8	103.0	197.9
1883	63.0	150.8	115.8	106.7	112.2	100.0	106.7	120.5	100.0	166.7
1884	59.3	141.3	102.6	100.0	101.4	95.0	100.0	110.3	89.0	125.0
1885	55.6	128.6	96.1	97.3	98.6	70.0	97.3	109.0	66.0	77.1
1886	51.9	114.3	92.1	88.0	89.2	.....	88.0	106.4	69.0	77.1
1887	44.4	117.5	97.4	92.0	93.2	103.3	92.0	103.8	65.0	77.1
1888	44.4	139.7	107.9	101.3	102.7	93.3	101.3	112.8	68.0	77.1
1889	48.1	142.9	109.2	101.3	102.7	91.7	101.3	115.4	63.0	77.1
1890	44.4	128.6	103.9	98.7	100.0	100.0	98.7	107.7	66.0	77.1
1891	48.1	120.6	103.9	96.0	97.3	100.0	96.0	109.0	62.0	77.1

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices*—Continued

METALS AND IMPLEMENTS.

Year.	Anvils, domestic.	Bar iron, best refined, rolled.	Butts, loose joint, cast, 3 by 3-inch.	Copper, ingot.	Copper, sheet.	Door knobs, mineral.	Iron rails, standard. (a)	Iron rods, for making common wood screws.	Iron wire, market, No. 10.	Lead, drop shot.
1840	.....	.....	.....	76.6	94.9	.....	.....	180.9	.....	127
1841	.....	.....	.....	76.6	91.5	.....	.....	152.2	.....	127.
1842	.....	.....	.....	72.3	84.7	.....	.....	133.9	.....	102
1843	.....	.....	.....	74.5	88.1	.....	.....	133.9	.....	85
1844	.....	145.7	.....	72.3	81.4	.....	.....	144.8	.....	85
1845	.....	159.6	.....	78.4	81.4	.....	.....	159.3	.....	85
1846	.....	156.0	171.9	70.2	84.7	.....	.....	152.0	.....	85
1847	200.0	146.5	187.7	76.6	84.7	.....	.....	145.5	.....	93.
1848	192.3	135.0	187.7	74.5	81.4	.....	.....	130.3	.....	99.
1849	169.2	114.9	143.9	72.3	81.4	261.6	112.3	123.1	.....	8
1850	134.6	101.3	143.9	70.2	81.4	149.6	99.8	101.4	.....	76
1851	124.6	93.0	136.8	73.4	81.4	66.4	95.1	92.7	.....	89.
1852	124.6	100.1	100.0	74.5	81.4	66.4	100.8	94.1	.....	85
1853	118.5	142.1	112.3	97.9	94.9	73.6	160.9	135.8	.....	110
1854	104.6	155.5	140.4	127.7	113.6	56.8	166.9	112.0	.....	119.
1855	104.6	126.9	133.3	102.1	113.6	80.0	131.0	120.7	.....	.....
1856	104.6	125.5	110.5	114.9	113.6	83.2	134.1	109.4	.....	119.
1857	104.6	120.9	140.4	125.5	113.6	75.2	133.9	104.3	.....	110.
1858	104.6	106.0	124.6	88.0	100.0	60.0	104.2	94.1	.....	102
1859	110.8	102.1	100.0	98.9	100.0	60.0	102.9	99.9	.....	102
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100
1861	104.6	103.5	89.5	80.9	100.0	100.0	88.3	105.5	100.0	110
1862	104.6	119.9	89.5	112.8	93.2	89.6	87.0	158.1	100.0	144.
1863	112.3	155.0	133.3	131.9	128.8	92.0	160.2	211.9	169.2	170
1864	138.5	249.3	178.9	160.6	162.7	248.0	262.5	282.8	211.5	229
1865	188.5	181.1	308.8	208.5	220.3	232.0	205.5	214.4	148.1	340
1866	188.5	167.0	277.2	174.5	186.4	152.0	180.7	195.4	190.4	2
1867	176.9	148.2	277.2	119.1	135.6	108.0	173.2	177.5	179.8	17
1868	149.2	145.8	224.6	89.4	118.6	108.0	164.3	181.4	158.7	195
1869	149.2	139.0	180.7	100.5	111.9	108.0	160.9	162.2	158.7	204
1870	124.6	134.4	149.1	92.6	111.9	80.0	150.5	145.8	126.9	170
1871	124.6	133.7	98.2	95.7	108.5	72.0	146.6	157.6	126.9	140
1872	124.6	166.2	142.1	117.0	122.0	100.0	177.4	177.4	158.7	170
1873	136.9	147.1	173.7	144.7	152.5	.....	159.7	166.3	142.3	17
1874	136.9	115.7	157.9	106.4	118.6	.....	122.4	147.3	116.3	17
1875	123.1	103.6	117.5	98.9	101.7	81.6	99.5	133.9	105.8	137
1876	113.8	88.6	129.8	98.9	105.1	82.8	85.9	112.6	95.2	149
1877	103.1	77.5	122.8	83.0	108.5	68.0	73.4	98.0	89.8	149
1878	103.1	75.3	75.4	74.5	94.9	60.6	70.3	93.5	89.8	13
1879	103.1	88.3	70.2	67.6	84.7	60.8	85.9	113.4	74.0	9
1880	103.1	102.8	138.6	90.4	101.7	73.0	102.6	98/6	95.2	10
1881	110.8	98.8	114.0	81.9	94.9	57.8	98.2	114.3	95.2	114
1882	110.8	104.5	114.0	87.2	101.7	59.4	94.8	106.0	95.2	114.
1883	110.8	85.6	103.5	76.6	101.7	58.4	.....	78.6	84.6	11
1884	110.8	75.0	93.0	63.8	71.2	49.4	.....	76.0	63.5	10
1885	110.8	68.6	93.0	47.3	54.2	48.0	.....	74.1	63.5	9
1886	110.8	73.4	77.2	51.1	47.5	48.0	.....	74.3	63.5	9
1887	110.8	84.0	70.2	51.1	61.0	47.2	.....	72.9	63.5	9
1888	110.8	76.6	78.9	75.0	84.7	40.0	.....	73.7	63.5	9
1889	118.5	73.9	73.7	74.5	84.7	40.0	.....	87.7	57.7	7
1890	118.5	78.2	70.2	61.2	74.6	40.0	.....	77.9	63.5	7
1891	118.5	72.4	70.2	59.6	74.6	40.0	.....	76.0	57.7	7

a Since the beginning of 1883 this article has been almost entirely superseded by steel rails.

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices*—Continued.

METALS AND IMPLEMENTS—Continued.

Year.	Lead.			Locks.		Meat cutters, Hale's, No. 12.	Nails, cut.	Pig iron, No. 1, anthracite, foundery.	Pocket knives.	
	Pig.	Pig.	Pipe.	Common mortise.	Common rim.				Redwood, iron-lined handle, 2¼ inch, 1 blade.	Standard, black horn, brass G.S. handle, 3¼ inch, pen, 2 blades.
1840	82.3	81.6	.....	.....	.....	.....	175.7	.....	.....	.....
1841	86.6	79.4	.....	.....	.....	.....	167.7	.....	.....	.....
1842	64.9	62.9	97.5	.....	.....	.....	151.8	112.5	.....	.....
1843	95.2	59.8	91.7	.....	.....	.....	135.8	.....	.....	.....
1844	62.8	63.1	91.7	.....	.....	.....	143.8	113.2	.....	.....
1845	64.9	67.5	91.7	.....	.....	.....	151.8	128.6	.....	.....
1846	75.8	68.5	.....	.....	.....	.....	143.8	122.5	.....	.....
1847	75.8	74.1	91.7	.....	.....	.....	143.8	133.0	.....	.....
1848	73.6	71.4	100.0	.....	.....	.....	135.8	116.5	.....	.....
1849	73.6	77.7	91.7	224.7	239.1	.....	127.8	100.0	.....	.....
1850	73.6	80.8	83.3	224.7	239.1	.....	118.5	91.8	.....	.....
1851	83.1	83.0	83.3	120.3	120.3	.....	104.8	94.0	132.1	128.0
1852	76.5	82.3	79.2	113.0	105.1	.....	100.0	99.4	128.6	128.0
1853	97.4	110.2	.....	105.1	105.1	.....	155.0	158.8	125.0	120.0
1854	116.9	114.5	116.7	114.5	129.0	.....	152.1	162.1	121.4	120.0
1855	108.2	111.1	116.7	87.0	87.0	.....	131.0	122.0	117.9	112.0
1856	121.2	120.4	129.2	90.6	90.6	.....	125.2	119.2	107.1	112.0
1857	116.9	109.7	116.7	90.6	90.6	.....	118.8	116.9	100.0	104.0
1858	.....	101.0	95.8	90.6	90.6	90.0	112.8	97.8	96.4	96.0
1859	101.3	101.0	104.2	90.6	90.6	90.0	123.3	102.8	96.4	96.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	95.2	96.8	104.2	100.0	100.0	100.0	87.9	89.0	100.0	108.0
1862	121.2	122.8	141.7	90.6	90.6	100.0	110.9	105.0	107.1	120.0
1863	138.5	150.2	166.7	92.8	83.3	100.0	163.9	154.9	125.0	144.0
1864	186.2	230.6	225.0	224.7	250.0	166.9	250.8	260.4	160.7	168.0
1865	259.7	177.6	333.3	224.7	195.7	166.9	226.2	202.7	160.7	168.0
1866	173.2	173.8	233.3	201.4	163.0	142.9	222.7	206.1	142.9	144.0
1867	.....	166.2	170.8	279.0	265.2	128.6	189.1	193.9	142.9	136.0
1868	.....	166.5	200.0	279.0	265.2	128.6	165.2	172.5	142.9	128.0
1869	.....	154.4	188.0	279.0	210.1	128.6	155.6	178.6	125.0	120.0
1870	128.5	132.8	133.3	168.8	144.9	128.6	140.6	146.2	107.1	112.0
1871	120.5	127.0	125.0	139.1	140.6	141.1	144.4	154.4	107.1	112.0
1872	108.9	129.1	150.0	163.0	169.6	141.1	174.4	214.9	100.0	108.0
1873	121.2	139.5	157.5	.....	.....	.....	156.5	187.9	100.0	108.0
1874	112.6	138.3	157.5	.....	.....	.....	127.5	133.0	96.4	100.0
1875	116.9	132.0	131.3	199.3	199.3	.....	109.3	112.1	92.9	100.0
1876	114.3	124.3	135.0	199.3	163.4	.....	95.2	97.8	89.3	96.0
1877	105.6	95.7	135.0	115.9	112.0	128.6	82.1	83.0	85.7	96.0
1878	75.7	63.3	112.5	96.4	102.2	109.4	73.8	77.5	78.5	92.0
1879	69.3	72.6	82.5	90.6	100.4	110.0	85.9	94.5	78.5	92.0
1880	97.4	91.0	116.3	118.5	116.8	107.0	117.6	125.3	71.4	88.0
1881	74.5	83.0	97.5	98.2	98.2	80.6	98.7	110.4	71.4	88.0
1882	89.2	85.2	112.5	113.0	114.7	66.9	110.9	113.2	71.4	84.0
1883	82.3	74.1	112.5	111.6	114.7	66.0	97.8	98.4	64.3	80.0
1884	66.7	63.3	90.0	90.6	85.5	61.0	76.4	87.4	64.3	80.0
1885	62.4	66.8	76.7	101.4	86.0	53.7	74.4	79.1	60.7	76.0
1886	80.5	79.6	80.0	78.6	75.0	51.6	72.5	82.2	60.7	76.0
1887	71.9	75.5	93.3	73.0	71.6	56.7	73.5	92.0	57.1	76.0
1888	84.9	75.2	100.0	60.1	54.4	49.1	64.9	83.0	57.1	72.0
1889	65.4	67.0	80.0	60.1	54.4	42.3	63.9	78.0	53.6	72.0
1890	66.7	73.6	80.0	60.1	54.4	42.3	63.9	80.9	53.6	72.0
1891	70.1	75.5	96.7	60.1	54.4	42.3	59.4	77.0	53.6	72.0

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices*—Continued.

METALS AND IMPLEMENTS—Continued.

Year.	Pocket knives, standard.								
	Cocoa, brass G. S. handle, 3½-inch, 2 blades.	Cocoa, brass G. S. handle, 3½-inch, 2 blades.	Cocoa, iron lined handle, 2¾-inch, 1 blade.	Cocoa, iron lined handle, 2¾-inch, 1 blade.	Cocoa, iron lined handle, 3½-inch, 1 blade.	Cocoa, iron lined handle, 3½-inch, 2 blades.	Cocoa, iron lined handle, 2¾-inch, 2 blades.	Cocoa, iron lined handle, 4-inch, 1 blade.	Ebony, brass G. S. handle, 3½-inch, 2 blades.
1840	.....	.....	.....	.....	.....	.....	.....	.....	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	.....	.....	.....	.....	.....	.....	.....	.....
1843	.....	.....	.....	.....	.....	.....	.....	.....	.....
1844	.....	.....	.....	.....	.....	.....	.....	.....	.....
1845	.....	.....	.....	.....	.....	.....	.....	.....	.....
1846	.....	.....	.....	.....	.....	.....	.....	.....	.....
1847	.....	.....	.....	.....	.....	.....	.....	.....	.....
1848	.....	.....	.....	.....	.....	.....	.....	.....	.....
1849	.....	.....	.....	.....	.....	.....	.....	.....	.....
1850	.....	.....	.....	.....	.....	.....	.....	.....	.....
1851	126.3	131.8	132.1	133.3	133.3	126.7	133.3	133.3	126.3
1852	126.3	127.3	128.6	133.3	133.3	126.7	133.3	133.3	126.3
1853	121.1	122.7	125.0	126.7	126.7	120.0	127.8	125.0	121 1
1854	115.8	118.2	121.4	122.2	122.2	120.0	122.2	116.7	115.8
1855	110.5	113.6	117.9	115.6	111.1	113.3	116.7	116.7	110.5
1856	110.5	113.6	114.3	111.1	100.0	113.3	116.7	113.3	110.5
1857	105.3	109.1	107.1	100.0	88.9	106.7	111.1	108.3	105 3
1858	100.0	104.5	100.0	100.0	88.9	100.0	105.6	106.7	100.0
1859	100.0	100.0	100.0	100.0	88.9	100.0	100.0	100.0	100 0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	110.5	109.1	107.1	111.1	100.0	113.3	111.1	116.7	110.5
1862	121.1	122.7	125.0	133.3	111.1	120.0	127.8	133.3	121.1
1863	136.8	140.9	142.9	155.6	144.4	133.3	144.4	150.0	136.8
1864	152.6	154.5	160.7	160.0	155.6	153.3	161.1	158.3	152.6
1865	152.6	154.5	160.7	160.0	155.6	153.3	161.1	158.3	152.6
1866	142.1	145.5	142.9	144.4	144.4	146.7	150.0	141.7	142.1
1867	136.8	136.4	142.9	133.3	133.3	140.0	144.4	133.3	136.8
1868	126.3	127.3	128.6	122.2	122.2	133.3	133.3	125.0	126.3
1869	110.5	113.6	114.3	111.1	111.1	113.3	116.7	116.7	110.5
1870	105.3	109.0	107.1	106.7	106.7	106.7	111.1	108.3	105.3
1871	100.0	104.5	107.1	100.0	100.0	100.0	105.6	100.0	100.0
1872	100.0	104.5	100.0	100.0	100.0	100.0	105.6	100.0	100.0
1873	105.3	109.0	107.1	111.1	111.1	106.7	111.1	108.3	105.3
1874	100.0	104.5	100.0	100.0	100.0	106.7	105.6	100.0	105.3
1875	100.0	100.0	92.9	100.0	100.0	100.0	100.0	91.7	105.3
1876	94.7	95.5	89.3	95.6	95.6	93.3	100.0	91.7	94.7
1877	89.5	90.9	85.7	93.3	93.3	86.7	94.4	88.3	89.5
1878	84.2	86.4	82.1	88.9	88.9	80.0	88.9	83.3	84.
1879	78.9	81.8	78.6	80.0	80.0	73.3	83.3	80.0	78.
1880	78.9	81.8	78.6	80.0	80.0	73.3	83.3	83.3	78.
1881	78.9	86.4	78.6	80.0	80.0	66.7	88.9	83.3	73.
1882	73.7	81.8	71.4	77.8	77.8	66.7	83.3	80.0	73.
1883	73.7	81.8	71.4	75.6	75.6	66.7	83.3	80.0	73.
1884	68.4	77.3	71.4	73.3	73.3	60.0	77.8	80.0	68.
1885	68.4	77.3	67.9	71.1	71.1	60.0	77.8	75.0	68.
1886	63.2	72.7	67.9	66.7	66.7	57.3	72.2	75.0	63.
1887	63.2	68.2	67.9	66.7	66.7	57.3	66.7	75.0	63.
1888	63.2	68.2	67.9	66.7	66.7	56.0	66.7	71.7	63.
1889	60.0	63.6	64.3	62.2	62.2	53.3	64.4	70.0	57.
1890	60.0	63.6	67.9	62.2	62.2	53.3	64.4	70.0	60.
1891	60.0	68.2	67.9	66.7	66.7	57.3	70.0	75.0	61.

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices*—Continued.

METALS AND IMPLEMENTS—Continued.

Year.	Pocket knives, standard.								
	Ivory, brass G. S. handle, 3-inch, pen, 2 blades.	Ivory, brass G. S. handle, 3½-inch, pen, 2 blades.	Ivory, brass G. S. handle, 3½-inch, pen, 4 blades.	Ivory, brass G. S. handle, 3½-inch, pen, 3 blades.	Pearl, brass lined handle, 3½-inch, pen, 3 blades.	Pearl, silver lined handle, 3½-inch, pen, 3 blades.	Pearl, silver lined handle, 3½-inch, pen, 4 blades.	Redwood, iron lined handle, 4-inch pruner, 1 blade.	Redwood, iron lined handle, 5-inch pruner, 1 blade.
1840									
1841									
1842									
1843									
1844									
1845									
1846									
1847									
1848									
1849									
1850									
1851	136.4	122.7	131.6	135.3	128.6	137.5	133.3	171.4	156.5
1852	136.4	122.7	131.6	135.3	128.6	137.5	133.3	171.4	156.5
1853	131.8	118.2	126.3	129.4	121.4	125.0	126.7	164.3	147.8
1854	127.3	118.2	126.3	123.5	114.3	112.5	120.0	164.3	139.1
1855	122.7	113.6	121.1	117.6	114.3	100.0	120.0	157.1	130.4
1856	118.2	109.1	121.1	111.8	114.3	100.0	120.0	142.9	121.7
1857	109.1	104.5	113.2	105.9	107.1	93.8	116.7	128.6	113.0
1858	104.5	95.5	105.3	100.0	107.1	93.8	106.7	114.3	104.3
1859	100.0	100.0	100.0	100.0	100.0	100.0	100.0	107.1	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	109.1	109.1	105.3	105.9	100.0	106.3	100.0	107.1	108.7
1862	127.3	122.7	115.8	117.6	107.1	112.5	106.7	128.6	121.7
1863	145.5	136.4	136.8	141.2	128.6	131.3	126.7	150.0	139.1
1864	150.1	150.0	157.9	155.9	142.9	156.3	146.7	185.7	165.2
1865	150.1	150.0	157.9	155.9	142.9	156.3	146.7	185.7	165.2
1866	154.5	140.9	142.1	147.1	128.6	140.6	133.3	171.4	147.8
1867	145.5	127.3	134.2	141.2	128.6	137.5	133.3	171.4	139.1
1868	131.8	122.7	126.3	129.4	125.0	125.0	120.0	164.3	130.4
1869	118.2	113.6	115.8	117.6	125.0	125.0	120.0	157.1	126.1
1870	113.6	104.5	110.5	111.8	121.4	118.8	116.7	142.9	121.7
1871	109.1	100.0	105.3	105.9	117.9	118.8	116.7	135.7	113.0
1872	104.5	95.5	100.0	100.0	114.3	112.5	113.3	135.7	108.7
1873	113.6	104.5	110.5	111.8	114.3	112.5	113.3	128.6	108.7
1874	109.1	100.0	105.3	105.9	110.7	109.4	110.0	128.6	104.3
1875	104.5	95.5	100.0	100.0	110.7	109.4	110.0	128.6	104.3
1876	100.0	90.9	94.7	97.1	107.1	100.0	106.7	121.4	95.7
1877	95.5	86.4	92.1	94.1	107.1	100.0	106.7	121.4	95.7
1878	90.9	81.8	89.5	91.2	103.6	93.8	103.3	114.3	91.3
1879	86.4	77.3	81.6	88.2	103.6	87.5	100.0	107.1	91.3
1880	81.8	72.7	84.2	85.3	103.6	87.5	100.0	107.1	91.3
1881	81.8	72.7	84.2	85.3	100.0	87.5	100.0	100.0	87.0
1882	81.8	72.7	81.6	82.4	100.0	87.5	96.7	100.0	82.6
1883	77.3	68.2	78.9	82.4	92.9	87.5	96.7	100.0	78.3
1884	77.3	68.2	78.9	82.4	92.9	84.4	96.7	92.9	78.3
1885	72.7	63.6	73.7	76.5	85.7	81.3	86.7	92.9	73.9
1886	72.7	63.6	73.7	76.5	82.1	81.3	83.3	85.7	73.9
1887	68.2	60.0	71.1	73.5	78.6	79.7	83.3	85.7	73.9
1888	68.2	60.0	68.4	70.6	78.6	79.7	80.0	80.0	69.6
1889	65.5	58.2	65.8	67.6	75.0	75.0	76.7	80.0	67.8
1890	68.2	60.0	68.4	70.6	75.0	78.1	80.0	80.0	69.6
1891	72.7	61.8	73.7	76.5	78.6	81.3	80.0	85.7	73.9

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices*—Continued.

METALS AND IMPLEMENTS—Continued.

Year.	Pocketknives, standard.					Quicksilver.	Rope.		
	Stag, brass G. S. handle, 4¼-inch, 3 blades.	Stag, brass lined handle, 3¼-inch, pen, 3 blades.	Stag, brass lined handle, 3¼-inch, pen, 3 blades.	Stag, brass lined handle, 3¼-inch, 4 blades.	Stag, brass lined handle, 4-inch, 4 blades.		Manila.	Tarred, American.	Tarred, Russian.
1840	.....	.....	.....	.....	.....	205.1	127.3	.....	126.3
1841	.....	.....	.....	.....	.....	200.0	133.3	.....	126.3
1842	.....	.....	.....	.....	.....	201.0	133.3	.....	126.3
1843	.....	.....	.....	.....	.....	210.3	109.1	.....	110.5
1844	.....	.....	.....	.....	.....	229.7	106.1	.....	100.0
1845	.....	.....	.....	.....	.....	225.6	109.1	81.1	94.7
1846	.....	.....	.....	.....	.....	229.7	112.1	81.1	110.5
1847	.....	.....	.....	.....	.....	254.4	115.2	81.1	110.5
1848	.....	.....	.....	.....	.....	246.2	145.5	102.7	126.3
1849	.....	.....	.....	.....	.....	220.5	127.3	102.7	121.1
1850	.....	.....	.....	.....	.....	189.7	145.5	108.1	110.5
1851	120.0	136.4	157.1	152.9	150.0	213.3	151.5	91.9	110.5
1852	120.0	136.4	157.1	152.9	150.0	184.6	169.7	97.3	115.8
1853	116.7	127.3	142.9	141.2	140.0	133.3	163.6	97.3	115.8
1854	116.7	127.3	142.9	141.2	140.0	106.7	175.8	129.7	157.9
1855	116.7	118.2	128.6	129.4	130.0	109.7	181.8	129.7	168.4
1856	113.3	118.2	128.6	117.6	120.0	88.2	154.5	124.3	152.6
1857	106.7	109.1	114.3	105.9	110.0	95.4	145.5	129.7	136.8
1858	100.0	109.1	107.1	100.0	100.0	96.4	109.1	108.1	105.3
1859	100.0	100.0	100.0	100.0	100.0	105.1	103.0	102.7	105.3
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	100.0	107.1	105.9	105.0	113.3	97.0	.....	102.6
1862	100.0	109.1	114.3	117.6	120.0	96.4	121.2	118.9	121.1
1863	120.0	127.3	142.9	141.2	140.0	139.5	151.5	143.2	168.4
1864	140.0	150.0	171.4	176.5	170.0	184.6	197.0	164.9	.....
1865	140.0	150.0	171.4	176.5	170.0	256.4	284.8	200.0	.....
1866	133.3	136.4	157.1	158.8	150.0	256.4	290.9	205.4	.....
1867	126.7	136.4	157.1	158.8	150.0	174.4	266.7	200.0	194.7
1868	120.0	136.4	142.9	141.2	135.0	153.8	233.3	194.6	189.5
1869	120.0	136.4	142.9	129.4	125.0	a 107.7	242.4	173.0	168.4
1870	113.3	131.8	135.7	117.6	110.0	a 104.6	272.7	162.2	157.9
1871	106.7	127.3	135.7	105.9	120.0	a 184.6	218.2	151.2	147.4
1872	106.7	122.7	128.6	100.0	100.0	a 164.1	236.4	140.5	136.8
1873	100.0	122.7	128.6	94.1	90.0	a 189.7	212.1	124.3	131.6
1874	93.3	113.6	125.0	88.2	85.0	a 266.7	187.9	118.9	126.3
1875	80.0	113.6	125.0	88.2	85.0	a 295.4	169.7	118.9	126.3
1876	76.7	109.1	121.4	88.2	85.0	a 143.6	163.6	129.7	136.8
1877	76.7	109.1	121.4	82.4	80.0	a 108.7	169.7	118.9	126.3
1878	73.3	104.5	117.8	82.4	80.0	a 97.9	139.4	108.1	115.8
1879	70.0	100.0	114.3	82.4	80.0	87.2	124.2	97.3	115.8
1880	70.0	100.0	114.3	82.4	80.0	86.2	163.6	124.3	121.1
1881	70.0	95.5	110.7	79.4	75.0	79.0	151.5	135.1	121.1
1882	66.7	95.5	110.7	79.4	75.0	80.0	169.7	108.1	105.3
1883	66.7	90.9	103.6	79.4	75.0	70.8	187.9	108.1	105.3
1884	63.3	86.4	103.6	79.4	75.0	72.3	175.8	108.1	105.3
1885	60.0	81.8	100.0	76.5	72.5	89.7	163.6	108.1	105.3
1886	60.0	77.3	96.4	76.5	72.5	83.8	145.5	102.7	100.0
1887	60.0	72.7	92.9	73.5	70.0	104.6	145.5	97.3	94.7
1888	60.0	68.2	92.9	73.5	70.0	111.3	124.2	97.3	94.7
1889	60.0	68.2	89.3	73.5	67.5	116.7	169.7	97.3	94.7
1890	56.7	68.2	92.9	73.5	70.0	130.0	157.6	97.3	94.7
1891	56.7	68.2	96.4	79.4	75.0	136.2	133.3	97.3	94.7

a In gold.

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices*—Continued.

METALS AND IMPLEMENTS—Concluded.

Year.	Saws.				Scythes.	Shovels, Ames No. 2, cast steel, D handle, square point, back strap.	Spelter, imported.	Wood screws, 1-inch, No. 10, flat head, iron.	Zinc, imported, sheet.
	Circular, 52-inch, Disston's.	Crosscut, 6-foot, Disston's.	Hand, common, Disston's.	Hand, standard, Disston's.					
1840	.....	.....	.....	.....	.....	.....	85.7	126.7	114.3
1841	.....	.....	.....	.....	.....	.....	133.3	118.7	114.3
1842	.....	.....	.....	.....	.....	.....	190.5	118.7	128.6
1843	.....	.....	.....	.....	125.0	.....	161.9	110.9	128.6
1844	.....	.....	.....	.....	125.0	.....	133.3	98.9	128.6
1845	.....	.....	.....	.....	125.0	100.0	95.2	110.9	100.0
1846	.....	.....	.....	.....	125.0	100.0	109.5	114.8	107.1
1847	.....	.....	.....	.....	125.0	100.0	95.2	87.1	110.7
1848	.....	.....	.....	.....	125.0	100.0	85.7	84.9	100.0
1849	.....	.....	.....	.....	125.0	100.0	61.9	77.2	92.9
1850	.....	.....	.....	.....	125.0	100.0	71.4	71.3	78.6
1851	.....	.....	.....	.....	125.0	100.0	66.7	71.3	82.1
1852	.....	.....	.....	.....	125.0	100.0	66.7	71.3	76.8
1853	.....	.....	.....	.....	125.0	100.0	92.9	87.1	103.6
1854	.....	.....	.....	.....	125.0	100.0	133.3	110.9	110.7
1855	.....	.....	.....	.....	125.0	100.0	102.4	110.9	92.9
1856	.....	.....	.....	.....	125.0	100.0	119.0	105.3	103.6
1857	100.0	100.0	100.0	100.0	100.0	100.0	157.1	105.3	121.4
1858	100.0	100.0	100.0	100.0	100.0	100.0	123.8	100.0	125.0
1859	100.0	100.0	100.0	100.0	100.0	100.0	109.5	100.0	110.7
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	102.8	100.0	100.0	100.0	100.0	90.5	116.7	92.9
1862	100.0	106.9	131.3	131.3	266.7	94.7	109.5	116.7	103.6
1863	96.5	106.9	131.3	131.3	266.7	102.6	142.9	135.0	146.4
1864	96.5	134.0	131.3	142.9	266.7	.....	176.2	158.3	171.4
1865	136.8	134.0	131.3	169.2	241.7	184.2	285.7	215.7	285.7
1866	136.8	134.0	131.3	169.2	233.3	134.2	207.1	215.7	200.0
1867	136.8	140.9	131.3	169.2	225.0	141.6	119.0	215.7	185.7
1868	123.2	128.7	131.3	160.8	220.8	141.6	121.4	143.8	157.1
1869	92.4	128.7	121.9	152.6	208.3	141.6	a 119.0	131.8	178.6
1870	88.4	112.1	112.5	146.6	200.0	141.6	a 116.7	131.8	146.4
1871	77.4	112.1	90.6	122.1	208.3	118.5	a 114.3	128.5	121.4
1872	77.4	112.1	90.6	122.1	183.3	118.5	a 133.3	147.6	150.0
1873	82.9	112.1	90.6	125.5	175.0	128.3	a 126.2	213.0	142.9
1874	77.6	112.1	87.5	118.8	150.0	122.8	a 140.5	197.3	123.2
1875	71.1	112.1	87.5	118.8	146.3	122.8	a 133.3	192.3	132.1
1876	71.1	109.3	81.3	112.3	133.3	106.6	a 135.7	92.6	a 123.2
1877	71.1	109.3	75.0	105.6	126.0	92.3	a 126.2	61.3	a 117.9
1878	71.1	109.3	75.0	105.6	120.8	89.0	a 116.7	60.0	a 114.3
1879	69.3	87.4	75.0	105.6	116.7	82.5	a 111.9	57.0	a 114.3
1880	69.3	87.4	75.0	105.6	108.3	92.6	121.4	82.5	114.3
1881	59.2	65.2	75.0	105.6	113.8	88.7	100.0	71.3	107.1
1882	59.2	65.2	75.0	105.6	114.2	86.2	95.2	99.8	98.2
1883	59.2	65.2	75.0	105.6	90.0	83.9	95.2	97.1	92.9
1884	59.2	65.2	75.0	102.9	90.0	81.4	95.2	59.3	82.1
1885	52.8	65.2	71.9	97.4	83.3	78.9	90.5	43.9	.....
1886	52.8	65.2	68.8	97.4	83.3	72.7	92.9	49.4	91.1
1887	52.8	65.2	62.5	91.4	75.0	72.7	90.5	56.8	.....
1888	52.8	65.2	56.3	91.4	75.0	72.7	114.3	79.7	.....
1889	52.8	65.2	46.9	91.4	67.5	72.7	109.5	79.7	.....
1890	52.8	65.2	37.5	91.4	66.7	72.7	123.8	82.1	.....
1891	52.8	65.2	37.5	97.4	60.0	72.7	133.3	92.2	.....

a In gold.

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices*—Continued.

LUMBER AND BUILDING MATERIALS.

Year.	Brick, common domestic building.	Carbonate of lead, in oil.	Cement, Rosendale.	Chestnut, lumber, in the log, not sawed.	Doors, pine, unmoulded, 2 ft. 4 in. x 6 ft. 8 in., 1¾ inches thick.	Hemlock, boards, first quality, 1-inch, not planed.	Hemlock, lumber, in the log, not sawed.	Lime, Rockland.	Maple, boards, first quality, 1-inch, rough.	Oak, boards, white, plain, first quality, 1-inch, rough.	Oxide of zinc, American, dry.	Pine, boards, white, clear, 1-inch, not planed.	Pine, boards, white, clear, extra, not planed.
1840	.....	97.9	.....	.....	109.4	128.6	.....	187.5	.....	.....	.....	100.0	100
1841	.....	96.3	.....	.....	109.4	128.6	.....	186.7	.....	.....	.....	103.2	10
1842	.....	84.4	.....	.....	115.6	128.6	.....	133.3	.....	.....	.....	106.4	1
1843	.....	81.9	.....	.....	109.4	128.6	.....	141.7	.....	.....	.....	77.6	10
1844	.....	83.1	.....	.....	109.4	128.6	.....	125.0	.....	.....	.....	87.2	1
1845	.....	87.4	.....	.....	109.4	128.6	.....	133.3	.....	.....	.....	93.6	1
1846	.....	82.5	.....	.....	109.4	132.1	.....	158.3	.....	.....	.....	96.8	1
1847	.....	81.3	.....	.....	100.0	128.6	.....	125.0	.....	.....	.....	100.0	1
1848	.....	77.8	137.0	.....	103.1	128.6	.....	116.7	.....	.....	.....	93.6	1
1849	85.7	80.3	135.0	.....	109.4	128.6	.....	116.7	.....	.....	.....	100.0	1
1850	97.1	84.7	135.0	.....	100.0	135.7	.....	113.3	.....	.....	.....	106.4	1
1851	102.9	83.5	125.0	.....	103.1	128.6	.....	133.3	.....	.....	.....	96.8	1
1852	102.9	80.7	125.0	.....	109.4	128.6	.....	141.7	.....	.....	.....	100.0	1
1853	102.9	99.8	125.0	.....	109.4	128.6	.....	133.3	.....	.....	.....	112.8	1
1854	86.9	109.2	137.0	.....	109.4	135.7	.....	183.3	.....	.....	155.6	116.0	1
1855	102.9	107.8	100.0	.....	93.8	103.6	.....	.....	88.9	90.9	133.3	116.0	1
1856	91.4	114.5	100.0	.....	109.4	100.0	.....	141.7	88.9	100.0	144.4	132.0	1
1857	102.9	108.4	120.0	.....	109.4	103.6	.....	133.3	94.4	100.0	116.7	138.4	1
1858	85.7	99.0	100.0	100.0	100.0	92.9	100.0	133.3	94.4	100.0	111.1	132.0	1
1859	114.3	100.0	80.0	100.0	86.3	92.9	100.0	108.3	100.0	100.0	100.0	109.6	1
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	1
1861	80.0	98.2	90.0	108.3	112.5	114.3	133.3	133.3	111.1	181.8	100.0	106.4	1
1862	91.4	105.2	90.0	133.3	125.0	128.6	133.3	91.7	111.1	272.7	100.0	106.4	1
1863	137.1	132.1	120.0	133.3	117.2	185 7	200.0	166.7	133.3	272.7	144.4	132.0	1
1864	160.0	202.8	150.0	133.3	125.0	185.7	200.0	166.7	133.3	272.7	188.9	196.0	1
1865	171.4	186.6	150.0	133.3	109.4	200.0	200.0	200.0	133.3	272.7	177.8	196.0	1
1866	234.3	199.0	175.0	133.3	140.6	171.4	200.0	250.0	133.3	272.7	222.2	228.0	1
1867	222.9	175.0	150.0	100.0	125.0	185.7	100.0	308.3	111.1	272.7	211.1	180.0	1
1868	257.1	164.8	175.0	100.0	121.9	171.4	100.0	291.7	111.1	272.7	200.0	196.0	1
1869	182.9	161.7	200.0	100.0	125.0	171.4	100.0	208.3	111.1	272.7	177.8	180.0	1
1870	171.4	132.8	190.0	100.0	121.9	171.4	100.0	208.3	111.1	290.9	144.4	160.8	1
1871	188.6	134.0	175.0	100.0	125.0	221.4	133.3	183.3	111.1	290.9	144.4	180.0	1
1872	194.3	134.2	160.0	100.0	140.6	200.0	133.3	225.0	111.1	300.0	177.8	196.4	1
1873	171.4	138.9	175.0	103.3	125.0	221.4	133.3	266.7	111.1	300.0	188.9	189.6	1
1874	171.4	132.6	140.0	104.2	132.8	192.9	133.3	166.7	111.1	300.0	177.8	180.0	1
1875	142.9	127.5	120.0	102.1	125.0	178.6	133.3	208.3	111.1	300.0	155.6	164.0	1
1876	114.3	121.2	120.0	100.0	125.0	150.0	133.3	141.7	111.1	300.0	122.2	141.6	1
1877	102.9	104.9	100.0	100.0	125.0	125.0	133.3	133.3	116.7	300.0	133.3	141.6	1
1878	100.0	90.6	90.0	100.0	117.2	121.4	133.3	108.3	127.8	300.0	105.6	132.0	1
1879	82.9	80.2	100.0	100.0	125.0	125.0	133.3	150.0	133.3	300.0	72.2	164.0	1
1880	125.7	94.8	110.0	.....	117.2	128.6	133.3	150.0	133.3	300.0	122.2	164.0	1
1881	.....	82.1	120.0	100.0	125.0	128.6	133.3	166.7	133.3	300.0	94.4	170.4	1
1882	148.6	82.3	110.0	100.0	125.0	135.7	133.3	150.0	127.8	300.0	105.6	170.4	1
1883	151.4	78.9	105.0	.....	109.4	132.1	125.0	166.7	122.2	300.0	88.9	176.8	1
1884	137.1	67.5	100.0	.....	101.6	128.6	127.5	158.3	122.2	300.0	83.3	176.8	1
1885	142.9	66.3	90.0	100.0	93.8	128.6	133.3	166.7	122.2	300.0	77.8	170.4	1
1886	165.7	78.4	90.0	.....	109.4	130.4	133.3	166.7	122.2	309.1	88.9	180.0	1
1887	160.0	69.7	95.0	.....	109.4	135.7	133.3	125.0	122.2	318.2	94.4	170.4	1
1888	125.7	66.4	90.0	100.0	101.6	139.3	133.3	116.7	122.2	318.2	100.0	184.0	1
1889	142.9	72.0	85.0	.....	93.8	146.4	133.3	141.7	122.2	318.2	100.0	184.0	1
1890	131.4	77.6	80.0	100.0	85.9	150.0	133.3	150.0	122.2	318.2	94.4	184.0	1
1891	117.1	86.2	85.0	100.0	78.1	146.4	133.3	150.0	122.2	318.2	94.4	188.0	1

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices*—Continued.

LUMBER AND BUILDING MATERIALS—Continued.

Year.	Pine.						Plate glass, polished.					
	Boards, white, clear, extra, 1-inch, not planed.	Boards, white, common, 1-inch, not planed.	Boards, white, common, 1-inch, not planed.	Boards, white, culls, 1-inch, not planed.	Flooring, white, extra, 1-inch, not planed.	Lumber, in the log, not sawed.	Unsilvered, area 1 to 3 square feet.	Unsilvered, area 3 to 5 square feet.	Unsilvered, area 5 to 10 square feet.	Unsilvered, area 10 to 40 square feet.	Unsilvered, area 40 to 80 square feet.	Unsilvered, area 80 to 100 square feet.
1840	.....	91.3	.....	.....	96.4	.....	.....	.....	.....	.....	.....	.....
1841	.....	91.3	.....	.....	96.4	.....	.....	.....	.....	.....	.....	.....
1842	.....	87.0	.....	.....	98.2	.....	.....	.....	.....	.....	.....	.....
1843	.....	91.3	.....	.....	96.4	.....	.....	.....	.....	.....	.....	.....
1844	.....	91.3	.....	.....	96.4	.....	.....	.....	.....	.....	.....	.....
1845	.....	91.3	.....	.....	100.0	.....	.....	.....	.....	.....	.....	.....
1846	.....	95.7	.....	.....	96.4	.....	.....	.....	.....	.....	.....	.....
1847	.....	95.7	.....	.....	100.0	.....	.....	.....	.....	.....	.....	.....
1848	.....	95.7	.....	.....	100.0	.....	.....	.....	.....	.....	.....	.....
1849	.....	95.7	.....	.....	100.0	.....	.....	.....	.....	.....	.....	.....
1850	.....	91.3	.....	.....	100.0	.....	.....	.....	.....	.....	.....	.....
1851	.....	95.7	.....	.....	100.0	.....	.....	.....	.....	.....	.....	.....
1852	.....	95.7	.....	.....	100.0	.....	.....	.....	.....	.....	.....	.....
1853	.....	95.7	.....	.....	100.0	.....	.....	.....	.....	.....	.....	.....
1854	.....	100.0	.....	.....	100.0	.....	.....	.....	.....	.....	.....	.....
1855	.....	95.7	.....	.....	114.3	.....	.....	.....	.....	.....	.....	.....
1856	.....	87.0	.....	.....	107.1	.....	.....	.....	.....	.....	.....	.....
1857	.....	95.7	.....	.....	110.7	.....	134.7	105.9	100.0	100.0	108.3	100.0
1858	.....	95.7	.....	.....	114.3	100.0	163.3	117.6	121.8	100.0	108.3	100.0
1859	.....	95.7	.....	.....	100.0	100.0	.....	.....	.....	.....	.....	.....
1860	100.0	100.0	100.0	100.0	100.0	100.0	.....	.....	.....	.....	.....	.....
1861	98.8	104.3	102.7	103.7	107.1	125.0	100.0	100.0	100.0	100.0	100.0	100.0
1862	103.5	117.4	108.1	111.1	114.3	187.5	.....	.....	.....	.....	.....	.....
1863	117.6	156.5	162.2	163.0	150.0	200.0	167.3	173.5	166.7	166.7	166.7	166.7
1864	141.2	173.9	210.8	222.2	157.1	200.0	165.3	172.8	208.3	208.3	208.3	208.3
1865	117.6	173.9	173.0	192.6	157.1	200.0	159.2	164.7	200.0	200.0	200.0	200.0
1866	235.3	173.9	216.2	207.4	157.1	200.0	149.0	155.9	150.0	150.0	150.0	150.0
1867	235.3	147.8	216.2	222.2	142.9	125.0	142.9	147.1	141.0	141.2	141.7	141.7
1868	188.2	141.3	216.2	207.4	146.4	125.0	142.9	147.1	141.0	141.2	141.7	141.7
1869	188.2	147.8	205.4	192.6	144.6	125.0	142.9	147.1	205.1	141.2	141.7	141.7
1870	211.8	147.8	194.6	192.6	142.9	125.0	100.0	102.9	100.0	100.0	100.0	100.0
1871	188.2	169.6	189.2	192.6	142.9	143.1	91.8	94.1	91.0	91.2	91.7	91.7
1872	235.3	173.9	237.8	237.0	150.0	150.0	102.0	105.9	102.6	102.9	102.8	102.8
1873	225.9	187.0	227.0	207.4	150.0	150.0	153.1	123.5	160.3	176.5	147.2	146.1
1874	202.4	160.9	183.8	177.8	142.9	150.0	159.2	117.6	152.6	134.3	117.4	111.1
1875	188.2	130.4	151.4	133.3	128.6	150.0	124.5	101.5	146.2	154.9	125.7	121.7
1876	178.8	126.1	151.4	133.3	128.6	150.0	128.6	111.6	129.5	131.4	97.9	84.4
1877	164.7	119.6	145.9	133.3	114.3	150.0	91.8	79.4	97.4	99.0	73.6	63.3
1878	131.8	121.7	156.8	148.1	114.3	150.0	85.7	76.5	92.3	94.1	70.1	60.0
1879	141.2	121.7	140.5	133.3	117.9	150.0	85.7	77.9	87.2	88.2	66.7	56.7
1880	197.6	130.4	173.0	177.8	116.1	150.0	102.0	89.7	102.6	103.9	77.8	67.2
1881	211.8	145.7	183.8	185.2	135.7	150.0	91.8	79.4	97.4	99.0	73.6	63.3
1882	221.2	154.3	194.6	192.6	142.9	150.0	89.8	77.9	89.7	91.2	68.1	58.9
1883	216.5	137.0	194.6	192.6	121.4	146.9	91.8	79.4	97.4	99.0	73.6	63.3
1884	216.5	145.7	183.8	177.8	125.0	150.0	91.8	79.4	97.4	99.0	73.6	63.3
1885	211.8	150.0	183.8	170.4	126.8	150.0	91.8	79.4	97.4	99.0	73.6	63.3
1886	207.1	147.8	183.8	163.0	128.6	150.0	91.8	82.4	97.4	99.0	73.6	63.3
1887	207.1	156.5	183.8	177.8	128.6	150.0	91.8	82.4	97.4	99.0	73.6	63.3
1888	202.4	147.8	183.8	185.2	121.4	150.0	91.8	82.4	97.4	99.0	73.6	63.3
1889	197.6	147.8	173.0	192.6	128.6	150.0	81.6	70.6	82.1	83.3	61.8	53.9
1890	202.4	134.8	173.0	185.2	128.6	150.0	89.8	77.9	89.7	91.2	68.1	58.9
1891	207.1	130.4	173.0	177.8	128.6	150.0	87.8	76.5	88.5	89.2	66.7	57.2

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices*—Continued.

LUMBER AND BUILDING MATERIALS—Concluded.

Year.	Putty.	Shingles, pine.				Spruce, boards, 1-inch.	Tar, Wilmington.	Turpentine.	Window glass.			
		16 inches.	16 inches, XXX.	16 inches, extra XXX, cut.	16 inches, extra XXX, sawed.				American, 10 x 14, firsts, single.	American, 10 x 14, thirds, single.	French, 10 x 14, firsts, single.	French, 10 x 14, thirds, single.
1840	133.3	131.2	114.3	100.0	.....	106.3	60.0	62.5	140.6	.....	.....	.....
1841	133.3	133.9	114.3	100.0	.....	118.8	65.0	71.3	140.6	.....	.....	.....
1842	133.3	139.3	120.0	100.0	.....	118.8	60.0	80.0	135.4	.....	.....	.....
1843	133.3	139.3	114.3	100.0	.....	110.4	60.0	77.5	125.0	.....	.....	.....
1844	116.7	128.1	114.3	100.0	.....	110.4	57.6	75.0	125.0	.....	.....	.....
1845	116.7	128.1	114.3	100.0	.....	110.4	75.0	93.8	125.0	.....	.....	.....
1846	116.7	116.9	108.6	95.0	.....	110.4	65.0	70.0	145.8	.....	.....	.....
1847	116.7	178.7	108.6	97.5	.....	110.4	90.0	90.0	109.4	.....	.....	.....
1848	108.3	178.7	108.6	100.0	.....	93.8	70.0	83.8	94.8	.....	.....	.....
1849	108.3	178.7	114.3	100.0	.....	93.8	70.0	80.0	94.8	.....	61.8	77.9
1850	104.2	178.7	114.3	100.0	.....	93.8	60.0	77.5	87.5	.....	69.8	93.8
1851	100.0	77.5	114.3	100.0	.....	85.4	70.0	83.8	87.5	.....	74.7	82.1
1852	91.7	83.1	114.3	105.0	.....	85.4	80.0	110.0	87.5	88.2	.....	78.2
1853	100.0	92.6	120.0	100.0	.....	93.8	80.0	120.0	85.9	85.8	.....	78.2
1854	108.3	104.0	114.3	100.0	.....	97.9	160.0	120.0	85.9	.....	75.7	97.7
1855	133.3	105.6	114.3	107.5	.....	79.2	100.0	100.0	85.9	.....	.....	97.7
1856	133.3	105.6	108.6	100.0	100.0	85.4	55.0	92.5	85.9	88.2	103.1	95.4
1857	108.3	100.0	114.3	100.0	95.0	83.3	70.0	117.5	91.7	95.6	93.8	101.6
1858	104.2	.....	114.3	100.0	95.0	100.0	70.0	108.8	97.4	88.2	85.9	93.8
1859	100.0	.....	121.1	100.0	95.0	87.5	81.2	112.5	91.7	88.2	97.7	93.8
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	116.7	71.9	120.0	100.0	100.0	87.5	120.0	205.0	100.0	103.4	96.1	97.7
1862	133.3	.....	137.1	135.0	125.0	79.2	640.0	325.0	100.0	159.3	96.1	156.3
1863	150.0	.....	178.6	142.5	137.5	131.3	.....	895.0	153.1	159.3	132.8	156.3
1864	166.7	.....	214.3	155.0	150.0	202.1	a720.0	900.0	208.3	245.0	223.4	224.7
1865	183.3	83.1	221.4	205.0	200.0	168.8	a260.0	337.5	177.6	161.7	154.7	158.5
1866	200.0	112.4	221.4	208.0	200.0	202.1	120.0	202.5	226.0	220.5	180.5	191.5
1867	216.7	.....	242.9	212.5	320.0	158.3	170.0	147.5	177.6	196.0	141.8	177.6
1868	216.7	.....	288.6	208.0	287.5	175.0	180.0	110.0	140.6	165.7	140.6	141.5
1869	183.3	.....	257.1	208.0	250.0	175.0	125.0	105.0	154.7	165.7	126.6	141.5
1870	150.0	134.8	235.7	210.0	237.5	175.0	80.0	95.0	108.3	.....	103.4	123.1
1871	116.7	134.8	228.6	210.0	225.0	170.8	140.0	117.5	123.8	.....	106.9	146.6
1872	100.0	134.8	217.1	222.0	212.5	143.8	130.0	117.5	202.5	.....	160.3	146.6
1873	91.7	.....	221.4	222.0	212.5	152.1	170.0	112.5	179.2	.....	128.1	172.0
1874	91.7	.....	214.3	225.5	200.0	145.8	110.0	90.0	179.2	.....	109.5	135.8
1875	91.7	105.6	210.0	173.5	187.5	139.6	95.0	82.5	129.4	.....	129.5	146.6
1876	91.7	88.8	202.9	173.5	175.0	202.1	80.0	77.5	213.8	122.5	112.5	141.8
1877	108.3	.....	177.1	173.5	162.5	172.9	100.0	77.5	127.5	110.3	100.9	107.5
1878	83.3	.....	142.9	173.5	145.0	108.3	90.0	72.5	95.6	98.0	95.6	111.4
1879	83.3	.....	135.7	156.0	137.5	143.8	90.0	68.8	91.6	98.0	73.8	87.9
1880	108.3	.....	135.7	174.0	162.5	125.0	80.0	70.0	138.8	154.4	100.0	111.4
1881	58.3	.....	164.3	174.0	162.5	143.8	120.0	107.5	115.6	.....	103.5	97.7
1882	83.3	.....	214.3	187.5	175.0	218.8	100.0	115.0	131.9	.....	103.5	105.5
1883	75.0	.....	178.6	174.0	180.0	218.8	90.0	95.0	103.1	.....	108.3	117.2
1884	66.7	118.0	168.6	174.0	160.0	135.4	80.0	80.0	173.4	.....	107.6	99.7
1885	66.7	94.4	157.1	146.0	132.5	131.3	90.0	92.5	164.1	.....	141.0	86.0
1886	66.7	.....	164.3	146.0	142.5	131.3	80.0	82.5	164.1	.....	71.9	93.8
1887	66.7	100.0	175.7	174.0	170.0	131.3	76.0	77.5	86.6	.....	73.8	75.4
1888	66.7	109.0	182.9	167.0	157.5	133.3	80.0	87.5	91.9	.....	84.1	81.3
1889	66.7	.....	180.0	152.5	147.5	131.3	96.0	102.5	78.8	.....	62.3	78.2
1890	66.7	.....	174.3	145.5	150.0	131.3	80.0	106.3	78.8	.....	70.2	81.3
1891	66.7	.....	165.7	145.5	150.0	131.3	80.0	93.8	83.1	.....	78.0	78.3

a Imported.

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices*—Continued.

DRUGS AND CHEMICALS.

Year.	Alcohol.	Alum, lump, crystal.	Bichromate of potash.	Blue vitriol.	Brimstone, crude.	Calomel.	Copperas.	Flaxseed.	Glycerine, refined.
1840	101.9	222.2	.....	89.5	122.2	198.5	225.0	87.6	.....
1841	81.5	177.8	.....	89.5	122.2	200.4	212.5	100.8	.....
1842	79.6	155.6	.....	89.5	88.9	216.9	150.0	118.3	.....
1843	88.9	133.3	.....	84.2	76.7	200.4	150.0	78.9	.....
1844	111.1	133.3	.....	84.2	57.8	198.5	150.0	78.9	.....
1845	98.1	144.4	95.2	84.2	55.6	187.5	175.0	100.8	.....
1846	92.6	133.3	85.7	78.9	51.1	176.5	150.0	92.0	.....
1847	92.6	100.0	81.0	78.9	57.8	169.1	112.5	76.7	.....
1848	100.0	100.0	76.2	84.2	71.1	169.1	100.0	79.8	.....
1849	88.9	105.6	81.0	81.6	60.0	176.5	100.0	73.6	.....
1850	101.9	133.3	109.5	73.7	88.9	176.5	87.5	92.0	.....
1851	98.1	116.7	81.0	76.3	88.9	169.1	100.0	107.4	.....
1852	83.3	88.9	78.6	76.3	116.7	161.8	100.0	93.9	.....
1853	92.6	94.4	70.2	100.0	83.3	147.1	125.0	89.0	.....
1854	107.4	94.4	72.6	115.8	77.8	132.4	125.0	89.0	.....
1855	155.6	100.0	71.4	110.5	64.4	111.8	125.0	122.7	406.3
1856	148.1	116.7	81.0	105.3	71.1	95.6	125.0	128.8	437.5
1857	107.4	105.6	81.0	110.5	82.2	98.5	112.5	113.5	406.3
1858	85.2	94.4	119.0	113.2	166.7	100.0	100.0	73.6	330.0
1859	92.6	116.7	85.7	100.0	100.0	100.0	100.0	102.5	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	74.1	94.4	100.0	94.7	133.3	100.0	125.0	89.0	90.0
1862	74.1	94.4	100.0	94.7	133.3	98.5	150.0	110.4	98.8
1863	142.6	155.6	104.8	121.1	111.1	125.0	200.0	171.8	100.0
1864	342.6	161.1	114.3	142.1	127.8	142.6	175.0	184.0	100.0
1865	814.8	255.6	142.9	192.1	222.2	97.1	237.5	230.1	125.0
1866	824.1	200.0	114.3	157.9	100.0	191.2	200.0	177.9	112.5
1867	861.1	144.4	95.2	126.3	88.9	147.1	200.0	159.5	117.5
1868	787.0	161.1	90.5	102.6	86.7	136.8	150.0	141.1	100.0
1869	361.1	150.0	82.1	102.6	111.1	140.4	200.0	153.4	87.5
1870	351.9	144.4	70.2	131.6	104.4	149.3	187.5	138.0	63.8
1871	342.6	138.9	60.1	92.1	100.0	172.8	175.0	131.9	63.8
1872	342.6	144.4	104.8	105.3	75.6	165.4	150.0	116.6	71.3
1873	361.1	144.4	100.0	118.4	100.0	191.9	125.0	125.8	67.5
1874	351.9	155.6	81.0	110.5	75.6	255.2	125.0	147.2	52.5
1875	359.3	122.2	83.3	100.0	80.0	191.7	125.0	141.1	40.0
1876	398.1	116.7	79.8	89.5	77.2	130.9	100.0	98.2	43.1
1877	392.6	116.7	69.0	76.3	64.4	104.0	125.0	130.1	51.9
1878	381.5	100.0	58.3	78.9	61.1	100.7	87.5	131.9	42.5
1879	370.4	100.0	66.7	68.4	55.6	85.3	87.5	85.9	39.4
1880	392.6	94.4	76.2	78.9	61.1	81.3	87.5	122.7	48.1
1881	396.3	94.4	71.4	76.3	71.1	87.5	87.5	71.2	82.5
1882	416.7	94.4	73.8	68.4	74.4	87.1	62.5	77.3	89.4
1883	416.7	94.4	73.8	61.8	57.8	83.1	87.5	73.6	64.4
1884	401.9	94.4	61.9	50.0	55.6	85.7	87.5	86.5	51.3
1885	401.9	83.3	50.0	44.7	51.1	88.2	75.0	84.0	39.1
1886	394.4	77.8	47.0	47.4	50.0	90.1	87.5	68.7	38.4
1887	401.9	77.8	45.2	48.4	45.0	95.6	75.0	58.3	58.8
1888	370.4	77.8	50.0	50.0	44.4	104.8	62.5	87.1	48.4
1889	388.9	77.8	54.8	61.8	48.9	106.6	50.0	100.0	51.9
1890	366.7	77.8	50.0	54.0	43.3	121.7	75.0	82.8	46.3
1891	411.1	77.8	47.6	47.4	57.8	119.1	75.0	69.3	38.8

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices*—Continued.

DRUGS AND CHEMICALS—Concluded.

Year.	Linseed oil.	Mercury.	Muriatic acid.	Opium.	Quinine.	Soda ash.	Sugar of lead.		Sulphuric acid.
							Brown.	White.	
1840	98.2	209.1	133.3	34.8	295.5	136.8	.....	123.9	109.1
1841	126.3	178.2	133.3	52.2	261.3	147.4	.....	117.4	118.2
1842	163.2	181.8	133.3	41.7	204.5	105.3	.....	117.4	127.3
1843	133.3	196.4	133.3	47.8	154.5	147.4	.....	87.0	109.1
1844	131.6	203.6	116.7	49.6	181.8	121.1	.....	87.0	90.9
1845	117.5	200.0	116.7	52.2	227.3	121.1	.....	69.6	90.9
1846	114.0	203.6	116.7	121.7	222.7	131.6	.....	121.7	90.9
1847	96.5	218.2	108.3	73.9	209.1	147.4	.....	87.0	90.9
1848	103.5	214.5	108.3	73.9	222.7	131.6	.....	82.6	90.9
1849	89.5	196.4	108.3	60.9	272.7	115.8	.....	73.9	90.9
1850	128.1	163.6	100.0	78.3	340.9	121.1	.....	91.3	90.9
1851	157.9	196.4	100.0	69.6	354.5	105.3	.....	100.0	90.9
1852	108.8	172.7	100.0	76.2	272.7	89.5	.....	78.3	90.9
1853	119.3	118.2	100.0	68.7	245.5	105.3	83.3	87.0	90.9
1854	112.3	105.5	100.0	69.6	254.5	110.5	120.0	104.3	90.9
1855	140.4	100.0	100.0	98.3	236.4	84.2	103.3	95.7	100.0
1856	157.9	81.8	100.0	82.6	245.5	105.3	126.7	130.4	100.0
1857	140.4	81.8	100.0	87.0	181.8	110.5	160.0	113.0	90.9
1858	94.7	90.9	100.0	82.6	127.3	100.0	120.0	100.0	90.9
1859	112.3	87.3	100.0	108.7	127.3	115.8	113.3	121.7	90.9
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	87.7	100.0	100.0	82.6	154.5	89.5	100.0	100.0	109.1
1862	149.1	81.8	116.7	87.0	227.3	121.1	126.7	104.3	127.3
1863	219.3	127.3	100.0	146.1	254.5	126.3	166.7	156.5	109.1
1864	250.9	150.9	133.3	169.6	231.8	152.6	186.7	191.3	109.1
1865	271.9	250.9	150.0	121.7	295.5	273.7	533.3	413.0	172.7
1866	249.1	100.0	166.7	151.3	231.8	273.7	320.0	391.3	181.8
1867	219.3	172.7	133.3	117.4	209.1	121.1	400.0	278.3	.....
1868	178.9	141.8	100.0	107.8	181.8	94.7	333.3	217.4	90.9
1869	171.9	138.2	83.3	247.8	200.0	94.7	226.7	217.4	127.3
1870	159.6	127.3	83.3	173.9	200.0	94.7	160.0	243.5	109.1
1871	143.9	163.6	66.7	128.3	209.1	100.0	160.0	187.0	72.7
1872	129.8	145.5	58.3	87.0	227.3	121.1	146.7	165.2	54.5
1873	157.9	163.6	58.3	124.3	227.3	121.1	166.7	139.1	54.5
1874	152.6	234.5	58.3	113.0	227.3	105.3	166.7	139.1	90.9
1875	136.8	290.9	66.7	153.9	204.5	94.7	166.7	165.2	72.7
1876	110.5	127.3	66.7	106.4	181.8	84.2	166.7	156.5	59.1
1877	114.0	96.4	66.7	113.0	272.7	84.2	100.0	160.9	63.6
1878	110.5	90.9	70.8	85.2	272.7	73.7	100.0	163.0	45.5
1879	107.0	78.2	50.0	80.9	327.3	63.2	110.0	165.2	54.5
1880	149.1	78.2	83.3	82.6	236.4	84.2	123.3	119.6	36.4
1881	96.5	74.5	58.3	114.8	236.4	63.2	133.3	130.4	40.9
1882	108.8	77.3	50.0	73.9	222.7	68.4	113.3	137.0	40.9
1883	93.0	70.9	50.0	67.8	163.6	68.4	93.3	104.3	40.9
1884	100.0	66.4	58.3	67.0	163.6	57.9	80.0	113.0	40.9
1885	89.5	87.3	54.2	67.0	89.1	57.9	70.0	91.3	40.9
1886	77.2	77.3	50.0	57.4	66.4	57.9	66.7	100.0	36.4
1887	77.2	96.4	45.8	55.7	48.2	52.6	86.7	104.3	36.4
1888	96.5	118.2	45.8	67.8	44.5	52.6	86.7	104.3	36.4
1889	103.5	110.9	45.8	53.9	38.2	52.6	103.3	113.0	36.4
1890	105.3	123.6	41.7	59.1	31.8	63.2	100.0	104.3	36.4
1891	107.0	127.3	29.2	39.1	27.3	68.4	80.0	104.3	27.3

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices*—Continued.

HOUSE FURNISHING GOODS.

Year.	Furniture.			Glassware.					Pails, wooden.			Tubs, wooden.	Tubs, wooden.	Tubs, wooden.	Tubs, wooden.
	Chairs, bedroom, maple, cane-seat.	Chairs, kitchen, common spindle.	Tables, kitchen, pine, 3½-foot.	Bowls, 8-inch.	Goblets, common.	Pitchers, ½-gallon.	Sets, finished.	Tumblers, ½-pint.	2-hoop.	2-hoop.	3-hoop.				
1840	.....	.....	.....	.....	.....	.....	.....	.....	160.7	.....	.....	72.0	.....	.....	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	160.7	.....	.....	72.0	.....	.....	.....
1842	.....	.....	.....	.....	.....	.....	.....	.....	160.7	.....	.....	72.0	.....	.....	.....
1843	.....	.....	.....	.....	.....	.....	.....	.....	128.6	.....	.....	72.0	.....	.....	.....
1844	.....	.....	.....	.....	.....	.....	.....	.....	128.6	.....	.....	76.0	.....	.....	.....
1845	.....	.....	.....	.....	.....	.....	.....	.....	128.6	.....	.....	76.0	.....	.....	.....
1846	.....	100.0	.....	.....	.....	.....	.....	.....	142.9	.....	.....	76.0	125.0	.....	.....
1847	.....	100.0	.....	.....	.....	.....	.....	.....	135.7	133.3	125.0	120.0	122.5	110.3	115.6
1848	.....	100.0	.....	.....	.....	.....	.....	.....	125.0	140.7	134.4	110.0	118.8	122.1	122.2
1849	.....	100.0	.....	.....	.....	.....	.....	.....	125.0	129.6	125.0	110.0	131.3	120.7	122.2
1850	.....	100.0	.....	.....	.....	.....	.....	.....	125.0	140.7	134.4	120.0	125.0	131.0	128.9
1851	.....	100.0	.....	.....	.....	.....	.....	.....	125.0	129.6	125.0	124.0	125.0	113.8	117.8
1852	100.0	100.0	100.0	.....	.....	.....	.....	.....	125.0	111.1	125.0	124.0	125.0	100.0	106.9
1853	100.0	100.0	100.0	.....	.....	.....	.....	.....	142.9	125.9	125.0	130.0	131.3	113.8	117.8
1854	100.0	100.0	100.0	.....	.....	.....	.....	.....	142.9	140.7	128.1	130.0	137.5	115.2	117.8
1855	100.0	100.0	100.0	.....	.....	.....	.....	.....	142.9	140.7	128.1	130.0	137.5	115.2	117.8
1856	100.0	100.0	100.0	.....	.....	.....	.....	.....	142.9	137.0	128.1	108.0	115.0	110.3	113.3
1857	100.0	100.0	100.0	.....	.....	.....	.....	.....	128.6	137.0	125.0	124.0	125.0	112.4	115.6
1858	100.0	100.0	100.0	.....	.....	.....	.....	.....	114.3	114.8	115.6	112.0	112.5	106.9	111.1
1859	100.0	100.0	100.0	.....	.....	.....	.....	.....	107.1	107.4	106.3	104.0	105.0	100.0	102.2
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	80.0	100.0	100.0	100.0	100.0	111.3	100.0	100.0	98.2	100.0	100.0	90.0	93.8	89.7	88.9
1862	80.0	100.0	100.0	.....	.....	.....	.....	.....	92.9	92.6	93.8	90.0	83.8	81.4	80.0
1863	85.0	100.0	100.0	145.0	131.3	112.5	119.5	158.3	121.4	122.2	125.0	140.0	137.5	124.1	124.4
1864	125.0	122.2	112.5	205.0	201.0	179.4	203.3	225.0	160.7	163.0	156.3	170.0	162.5	148.3	144.4
1865	180.0	166.7	162.5	200.0	206.3	166.3	206.8	233.3	178.6	183.0	178.1	180.0	150.0	170.3	154.2
1866	145.0	144.4	150.0	.....	.....	.....	.....	.....	196.4	196.3	187.5	240.0	212.5	203.4	177.8
1867	150.0	144.4	150.0	.....	.....	.....	.....	.....	167.9	166.7	171.9	157.5	162.5	155.2	164.4
1868	120.0	144.4	150.0	150.0	103.1	134.4	133.2	191.7	135.7	135.2	129.7	130.0	137.5	110.3	117.8
1869	135.0	144.4	150.0	112.0	62.5	100.0	87.8	141.7	139.3	125.9	121.9	140.0	131.3	103.4	115.6
1870	125.0	155.6	150.0	80.0	56.3	93.8	78.0	.....	142.0	129.6	125.0	150.0	150.0	127.6	128.9
1871	105.0	133.3	150.0	.....	.....	.....	.....	.....	139.3	129.6	125.0	134.0	137.5	113.8	117.8
1872	120.0	133.3	150.0	.....	.....	.....	.....	.....	135.7	122.2	115.6	120.0	125.0	103.4	106.7
1873	105.0	133.3	150.0	80.0	53.1	68.8	64.4	.....	135.7	129.6	125.0	124.0	130.0	106.9	122.2
1874	105.0	122.2	150.0	80.0	50.0	68.8	.....	.....	125.0	129.6	125.0	120.0	125.0	106.9	115.6
1875	85.0	111.1	137.5	65.0	43.8	53.1	63.4	91.7	114.3	111.1	109.4	112.0	112.5	103.4	111.1
1876	75.0	94.4	137.5	60.0	40.6	43.8	58.5	.....	107.1	103.7	103.1	100.0	100.0	96.6	100.0
1877	80.0	88.9	137.5	60.0	31.3	40.6	58.5	.....	92.9	88.9	87.5	88.0	90.0	79.3	82.2
1878	70.0	88.9	137.5	56.0	28.1	37.5	50.1	62.5	85.7	77.8	78.1	88.0	85.0	79.3	84.4
1879	70.0	88.9	125.0	50.0	25.0	34.4	53.7	62.5	71.4	70.4	68.8	80.0	75.0	72.4	82.2
1880	80.0	100.0	125.0	45.0	25.0	34.4	53.7	.....	107.1	81.5	78.1	128.0	125.0	103.4	106.7
1881	75.0	94.4	125.0	40.0	21.9	31.3	51.2	.....	100.0	90.7	89.1	96.0	95.0	87.9	88.9
1882	75.0	93.3	137.5	40.0	21.9	31.3	51.2	.....	100.0	90.7	89.1	96.0	95.0	86.2	86.7
1883	75.0	93.3	137.5	40.0	21.9	28.1	48.8	.....	92.9	92.6	87.5	96.0	95.0	89.7	86.7
1884	67.5	93.3	137.5	40.0	20.6	28.1	48.8	.....	92.9	92.6	87.5	100.0	90.0	86.2	83.3
1885	67.5	93.3	125.0	38.0	18.8	25.0	46.3	58.3	85.7	75.6	75.0	92.0	87.5	82.8	80.0
1886	75.0	93.3	125.0	38.0	17.5	25.0	46.3	55.0	75.0	74.1	73.8	88.0	82.5	79.3	77.8
1887	75.0	93.3	125.0	38.0	17.5	25.0	43.9	50.0	71.4	74.1	71.9	84.0	75.0	75.9	75.6
1888	75.0	93.3	125.0	35.0	16.9	25.0	41.5	46.7	78.6	77.8	75.0	84.0	77.5	75.9	75.6
1889	75.0	93.3	125.0	33.0	16.3	21.9	39.0	46.7	82.1	81.5	78.1	100.0	95.0	82.8	80.0
1890	70.0	93.3	125.0	32.0	16.3	21.9	39.0	41.7	78.6	81.5	78.1	100.0	95.0	86.2	84.4
1891	70.0	93.3	125.0	30.0	15.6	20.6	36.6	41.7	85.7	88.9	84.4	100.0	95.0	82.8	82.2

TABLE 1.—*Wholesale prices of commodities for 52 years—Relative prices*—Concluded.

MISCELLANEOUS.

Year.	Powder.		Rubber, Para.	Soap, castile, mottled, imported.	Starch.					
	Rifle.	Rifle.			Ontario.	Ordinary laundry.	Pearl.	Pure.	Refined.	Silver gloss.
1840	.....	.....	.....	147.1	.....	.....	.....	.....	.....	.....
1841	.....	.....	.....	147.1	.....	.....	.....	.....	.....	.....
1842	.....	.....	.....	170.6	.....	.....	.....	.....	.....	.....
1843	.....	.....	.....	123.5	.....	.....	.....	.....	.....	.....
1844	.....	.....	.....	129.4	.....	.....	129.6	.....	.....	.....
1845	.....	.....	.....	100.0	.....	.....	129.6	.....	.....	.....
1846	100.0	.....	.....	94.1	.....	.....	138.9	.....	.....	.....
1847	90.0	.....	.....	117.6	.....	.....	157.4	.....	.....	.....
1848	100.0	.....	.....	135.3	.....	.....	138.9	128.2	.....	.....
1849	90.0	.....	.....	117.6	.....	.....	.....	121.8	.....	.....
1850	85.0	.....	.....	117.6	.....	.....	114.4	113.7	.....	.....
1851	85.0	.....	.....	111.8	.....	.....	105.6	105.6	105.6	.....
1852	80.0	.....	.....	105.9	.....	.....	105.6	105.6	105.6	.....
1853	90.0	.....	.....	114.7	.....	.....	114.4	113.7	113.1	.....
1854	80.0	66.7	.....	138.2	.....	.....	123.1	121.8	120.6	.....
1855	80.0	91.7	.....	129.4	.....	.....	131.9	129.9	128.2	.....
1856	125.0	91.7	90.9	129.4	.....	.....	140.7	138.0	135.7	.....
1857	100.0	100.0	65.5	122.1	.....	117.3	123.1	121.8	120.6	119.
1858	120.0	83.3	58.2	129.4	.....	102.7	94.2	94.9	95.4	98.
1859	100.0	89.6	86.4	123.5	.....	107.7	100.0	100.0	100.0	100.
1860	100.0	.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.
1861	100.0	100.0	100.0	114.7	100.0	92.3	100.0	100.0	100.0	100.
1862	140.0	104.2	87.3	152.9	100.0	92.3	91.7	92.3	92.9	9
1863	130.0	116.7	159.1	170.6	140.0	115.4	116.7	115.4	114.3	11
1864	145.0	138.9	145.5	217.6	180.0	169.2	141.7	138.5	135.7	12
1865	180.0	141.7	218.2	294.1	240.0	169.2	208.3	200.0	192.9	18
1866	170.0	125.0	181.8	232.4	180.0	153.9	175.0	169.2	164.3	15
1867	152.0	108.3	118.2	200.0	200.0	169.2	175.0	169.2	164.3	15
1868	130.0	.....	122.7	188.2	200.0	169.2	175.0	169.2	164.3	15
1869	135.0	.....	149.1	176.5	180.0	153.9	175.0	169.2	164.3	15
1870	115.0	95.8	181.8	152.9	180.0	153.9	158.3	153.8	150.0	14
1871	115.0	.....	181.8	120.6	180.0	134.7	158.3	153.8	150.0	14
1872	120.0	100.0	131.8	132.4	160.0	134.7	141.7	138.5	135.7	12
1873	125.0	104.2	134.5	117.6	160.0	134.7	141.7	138.5	135.7	12
1874	125.0	87.5	136.4	105.9	160.0	134.7	141.7	138.5	135.7	12
1875	105.0	79.2	106.4	105.9	150.0	134.7	141.7	138.5	135.7	12
1876	95.0	90.0	116.4	100.0	130.0	119.8	125.0	123.1	128.6	13
1877	110.0	.....	105.5	102.9	126.2	116.4	125.0	123.1	128.6	13
1878	113.0	94.2	89.1	.....	126.2	94.6	121.5	119.7	125.0	12
1879	115.0	100.0	92.7	.....	97.2	94.6	97.2	104.7	111.1	10
1880	120.0	.....	147.3	.....	97.2	94.6	97.2	104.7	111.1	10
1881	125.0	104.2	138.2	108.8	97.2	94.6	97.2	104.7	111.1	10
1882	125.0	.....	158.2	100.0	107.0	92.7	105.2	112.2	118.1	11
1883	125.0	83.3	194.5	100.0	120.0	101.9	105.3	112.2	118.1	11
1884	100.0	.....	174.5	82.4	110.0	78.6	108.3	115.4	121.4	11
1885	100.0	.....	101.8	79.4	100.0	86.1	100.0	100.0	107.1	10
1886	100.0	75.0	110.9	76.5	80.0	80.4	100.0	100.0	107.1	10
1887	100.0	.....	138.2	67.6	80.0	80.4	83.3	84.6	92.9	9
1888	100.0	.....	138.2	64.7	80.0	70.0	83.3	84.6	92.9	9
1889	100.0	.....	134.5	64.7	80.0	66.6	83.3	84.6	92.9	9
1890	100.0	91.7	145.5	70.6	80.0	57.7	83.3	84.6	92.9	9
1891	110.0	91.7	141.8	73.5	100.0	63.2	91.7	92.3	96.4	9

The foregoing table includes all the articles covering the period in question with the exception of five kinds of lumber. As the purpose of the investigation was to ascertain the course of prices for the average consumer, it was felt that these articles, which are articles of luxury only and whose price has increased so immoderately that they can not be said to enter into consumption in the same degree as formerly, should be omitted from this consideration. The articles in question are ash boards, whose price in 1891 was 269.2 per cent of that in 1860; basswood boards, which have risen to 220 per cent of the 1860 price; cherry boards, which have risen to 730.8 per cent of the 1860 price; chestnut boards, which have risen to 318.2 per cent of the 1860 price; poplar boards, which reached 230.8 per cent of the 1860 price; and walnut boards, which rose to 380 per cent of the price in 1860. The increase in the price of these articles is enormous, but they are not articles whose enhanced prices would materially affect the average consumer since substitutes for them are plentiful.

Our first concern is with the results in 1891 as compared with 1860, and with the initial period, 1840. In the following table, 2, the results of individual articles are presented in such a way as to show the prices which have risen and those which have fallen, and the degree in which such rise or fall in price has taken place. The grouping used in the general tables of the Report of the Committee has been followed here with the exception that the articles soap and starch have been taken out of the group food, etc., and placed in miscellaneous. This makes our first group simply food.

TABLE 2.—*Relative prices, 1891 compared with 1860.*

FOOD, 53 ARTICLES.

Uniform:	
Vegetables, fresh, potatoes, white	100.0
Do	100.0
Milk, fresh	100.0
Bread, soda crackers	100.0
Rise less than 10 per cent:	
Meat, lamb	102.0
Meat, beef, loins	103.6
Meat, beef, ribs	106.7
Flour, rye	107.5
Spices, pepper, whole, Sumatra	107.5
Eggs	109.6
Rise 10 to 25 per cent:	
Bread, B shipbread	112.5
Bread, ship biscuits	112.5
Bread, Boston crackers	114.3
Bread, navy shipbread	114.3
Fruit, apples, dried	116.1
Salt, Ashton's Liverpool, fine	116.9
Beans	118.7
Meat, ham, sugar-cured	122.2
Rise 25 to 50 per cent:	
Bread, A shipbread	125.0
Salt, Turk's Island	125.0
Rice, Carolina, prime	126.5
Salt, Ashton's	128.2
Butter	128.6
Meat, mutton	130.0
Spices, nutmegs	142.9
Rise 50 to 100 per cent:	
Fish, mackerel, salt, shore, No. 1	150.0
Fish, mackerel, salt, shore, No. 2	164.7
Coffee, Rio, fair	165.2
Rise 100 to 200 per cent:	
Fish, mackerel, salt, shore, No. 3	230.0
Rise 200 per cent or more:	
Fish, cod	312.5
Fall less than 10 per cent:	
Cheese	95.0
Molasses, Porto Rico, best	94.7
Fruit, raisins	91.3
Fall 10 to 25 per cent:	
Starch, corn	82.4
Bread, oyster crackers	80.0
Fruit, currants, Zante	79.2
Meal, corn, yellow, kiln-dried	78.3
Meat, bacon, clear	76.0
Fall 25 to 50 per cent:	
Sugar, brown	75.0
Meat, pork, salt, mess	75.0
Starch, corn	73.6
Flour, wheat	72.1
Molasses, New Orleans, prime	67.9
Sugar, fair refining	62.9
Sugar, cut	62.2
Meat, beef, salt, mess	60.9
Lard, pure leaf	60.6
Sugar, refined, crushed and granulated	59.4
Bread, Boston crackers	58.8
Salt, coarse, solar	55.4
Lard	54.3
Salt, fine, boiled	52.0
Fall 50 per cent or more:	
Tallow, prime, city, in hogsheads	45.1

TABLE 2.—*Relative prices, 1891 compared with 1860*—Continued.

CLOTHS AND CLOTHING, 28 ARTICLES.

Uniform:	
Broadcloths, first quality black, 54-in., etc	100.0
Rise 10 to 25 per cent:	
Carpets, Wilton, 5-frame, Bigelow	113.5
Broadcloths, second quality, black, 54-in., etc	116.7
Fall less than 10 per cent:	
Cassimeres, all wool, fancy, light weight, 3-4	99.6
Shawls, standard, 72 by 144 in., 42-oz., etc.	95.0
Carpets, Brussels, 5-frame, Bigelow	90.4
Fall 10 to 25 per cent:	
Cassimeres, 3-4, 12-ounce, Harris double and twist	89.6
Sole leather, first quality, etc	87.0
Leather, harness	85.7
Cotton, upland, middling	84.7
Sheetings, brown, 4-4, Atlantic A	83.1
Blankets, 11-4, 5 pounds to pair, cotton warp, all wool filling	82.9
Checks, black and white, all wool, 3-4, 7-oz., Harris	82.3
Wool, Ohio, medium fleece, scoured	81.7
Horse blankets, 6-lb., all wool	81.1
Denims, Amoskeag	81.0
Cassimeres, all wool, 3-4, 7-oz., Harris double and twist	78.5
Carpets, ingrain, 2-ply, Lowell	78.4
Drillings, 30-inch, Pepperell	78.[illegible]
Blankets, 11-4, 5 pounds to the pair, cotton warp, cotton and wool filling	76.7
Fall 25 to 50 per cent:	
Sheetings, bleached, 4-4, N. Y. Mills	71.7
Tickings, Amoskeag, A. C. A	70.6
Cassimeres, all wool, 3-4, 12-oz., Harris, silk mixed	69.3
Wool, Ohio fine fleece, scoured	69.0
Calico, Cocheco prints	63.2
Hides, dry, Buenos Ayres	55.2
Print cloths, 28-in., 64 by 64, Metacomet	54.7
Print cloths, standard, 28-in., 7 yards to pound	51.7

FUEL AND LIGHTING, 10 ARTICLES.

Uniform:	
Coal, anthracite, pea	100.0
Rise less than 10 per cent:	
Coal, anthracite, egg	103.9
Coal, anthracite, stove	109.0
Rise 10 to 25 per cent:	
Coal, anthracite, chestnut	120.6
Fall less than 10 per cent:	
Coal, anthracite, grate	97.1
Coal, anthracite, F. lump	96.9
Coal, anthracite, S. lump	96.0
Fall 10 to 25 per cent:	
Matches, 8-card	77.1
Fall 25 to 50 per cent:	
Coal, bituminous	62.[illegible]
Fall 50 per cent or more:	
Candles, best adamantine	48.1

METALS AND IMPLEMENTS, 54 ARTICLES.

Rise 10 to 25 per cent:	
Anvils, domestic	118.5
Rise 25 to 50 per cent:	
Rope, manila	133.3
Spelter, imported	133.3
Quicksilver	136.2
Fall less than 10 per cent:	
Saws, hand, standard Disstons	97.4
Rope, tarred, American	97.[illegible]
Lead pipe	96.[illegible]
Rope, tarred, Russian	94.[illegible]
Wood screws, 1-inch, No. 10, flat head, iron	93.[illegible]
One variety of pocket knife	[illegible]
Fall 10 to 25 per cent:	
Lead drop shot	88.0
Pig iron, No. 1, Anthracite foundery	77.[illegible]
Iron rods, for making wood screws	76.[illegible]
Lead, pig	75.[illegible]
Six varieties of pocket knives	[illegible]
Fall 25 to 50 per cent:	
Copper, sheet	74.[illegible]
Shovels, Ames, No. 2, cast steel, etc	72.[illegible]
Bar iron, best refined, rolled	72.[illegible]
Butts, loose pin, cast, 3 x 3-inch	70.[illegible]
Lead, pig	70.[illegible]
Saws, crosscut, 6-foot, Disston's	69.[illegible]
Locks, common mortise	69.[illegible]
Scythes	69.[illegible]
Copper, ingot	59.[illegible]
Nails, cut	59.[illegible]
Iron wire, market, No. 10	57.[illegible]
Locks, common rim	54.[illegible]
Saws, circular, 52-inch, Disston's	52.[illegible]
18 varieties of pocket knives	[illegible]
Fall 50 per cent or more:	
Meat cutters, Hale's, No. 12	42.[illegible]
Door knobs, mineral	40.[illegible]
Saws, hand, common, Disston's	37.[illegible]

TABLE 2.—*Relative prices, 1891 compared with 1860*—Continued.

LUMBER AND BUILDING MATERIALS, 35 ARTICLES.

Uniform:	
Chestnut, lumber, in the log, not sawed	100.0
Rise 10 to 25 per cent:	
Brick, common domestic, building	117.1
Maple, boards, first quality, 1-in., rough	122.2
Rise 25 to 50 per cent:	
Pine, flooring, white, extra, 1-in., etc	128.6
Pine, boards, white, common, 1-in., etc	130.4
Spruce, boards, 1-inch	131.3
Hemlock, lumber, in log, not sawed	133.3
Shingles, pine, 16 in., extra XXX, cut	145.5
Hemlock, boards, first quality, 1-in., etc	146.4
Rise 50 to 100 per cent:	
Lime, Rockland	150.0
Pine, lumber, in log, not sawed	150.0
Shingles, pine, 16 inches, extra XXX, sawed	150.0
Pine, boards, white, clear, 1-in., etc	160.0
Shingles, pine, 16 inches, XXX	165.7
Pine, boards, white, common, 1-in., etc	173.0
Pine, boards, white, culls, 1-in., etc	177.8
Pine, boards, white, clear, extra, 1-in., etc	183.3
Rise 100 to 200 per cent:	
Pine, boards, white, clear, extra, 1-in., etc	207.1
Rise 200 per cent or more:	
Oak, boards, white, plain, first quality, 1-in., etc	318.2
Fall less than 10 per cent:	
Oxide of zinc, American, dry	94.4
Turpentine	93.8
Fall 10 to 25 per cent:	
Plate glass, polished, unsilvered, 10–40 sq. feet	89.2
Plate glass, polished, unsilvered, 5–10 sq. feet	88.5
Plate glass, polished, unsilvered, 1–3 sq. feet	87.8
Carbonate of lead in oil	86.2
Cement, Rosendale	85.0
Window glass, American, 10 by 14, firsts, single	83.1
Tar, Wilmington	80.0
Window glass, French, 10 by 14, thirds, single	78.2
Doors, pine, unmoulded, etc	78.1
Window glass, French, 10 by 14, firsts, single	78.0
Plate glass, polished, unsilvered, 3 to 5 sq. feet	76.5
Fall 25 to 50 per cent:	
Plate glass, polished, unsilvered, 40–80 sq. feet	66.7
Putty	66.7
Plate glass, polished, unsilvered, 80–100 sq. feet	57.2

DRUGS AND CHEMICALS, 18 ARTICLES.

Rise less than 10 per cent:	
Sugar of lead, white	104.3
Linseed oil	107.0
Rise 10 to 25 per cent:	
Calomel	119.1
Rise 25 to 50 per cent:	
Mercury	127.3
Rise 200 per cent or more:	
Alcohol	411.1
Fall 10 to 25 per cent:	
Sugar of lead, brown	80.0
Alum, lump, crystal	77.8
Fall 25 to 50 per cent:	
Copperas	75.0
Flaxseed	69.3
Soda ash	68.4
Brimstone, crude	57.8
Fall 50 per cent or more:	
Bichromate of potash	47.6
Blue vitriol	47.4
Opium	39.1
Glycerine, refined	38.8
Muriatic acid	29.2
Quinine	27.3
Sulphuric acid	27.3

HOUSE FURNISHING GOODS, 15 ARTICLES.

Uniform:	
Tubs, wooden	100.0
Rise 25 to 50 per cent:	
Furniture, tables, kitchen, pine, 2½-foot	125.0
Fall less than 10 per cent:	
Tubs, wooden	95.0
Furniture, chairs, kitchen, common, spindle	93.3
Fall 10 to 25 per cent:	
Pails, wooden, 2-hoop	88.9
Pails, wooden, 2-hoop	85.7
Pails, wooden, 3-hoop	84.4
Tubs, wooden	82.8
Tubs, wooden	82.2
Fall 25 to 50 per cent:	
Furniture, chairs, bedroom, maple, cane seat	70.0
Fall 50 per cent or more:	
Glassware, tumblers, ½-pint	41.7
Glassware, sets, finished	36.6
Glassware, bowls, 8-inch	30.0
Glassware, pitchers, ½-gallon	20.6
Glassware, goblets, common	15.6

MISCELLANEOUS, 10 ARTICLES.

Uniform:	
Starch, Ontario	100.0
Rise 10 to 25 per cent:	
Powder, rifle	110.0
Rise 25 to 50 per cent:	
Rubber, Para	141.8
Fall less than 10 per cent:	
Starch, refined	96.4
Starch, pure	92.3
Powder, rifle	91.7
Starch, pearl	
Starch, silver gloss	
Fall 25 to 50 per cent:	
Soap, castile, mottled, imported	
Starch, ordinary laundry	

TABLE 2.—*Relative prices, 1891 compared with 1860*—Concluded.

NUMERICAL SUMMARY.

	Number of articles.	Per cent.
Prices which rise—		
200 per cent or more	3	1.4
100 to 200 per cent	2	0.9
50 to 100 per cent	11	4.9
25 to 50 per cent	19	8.5
10 to 25 per cent	16	7.2
Less than 10 per cent	10	4.5
Prices which remain uniform	9	4.0
Prices which fall—		
Less than 10 per cent	24	10.8
10 to 25 per cent	48	21.5
25 to 50 per cent	64	28.7
50 per cent or more	17	7.6
Total	223	100.0

A careful examination of the foregoing table reveals many marked changes in price. There are notable instances of increased prices to be found, especially in the groups food, and lumber and building materials. Other groups present few instances of greatly increased prices. This is especially true of cloths and clothing, where but two articles, and these not goods of common consumption, have increased in price. It is eminently true that, apart from the two groups which we have mentioned, decreased prices are the rule and increased prices the exception. Decreased prices are especially the case where manufactured articles enter largely into the groups. In the table the articles have been so arranged that the degree of change could be easily seen. To this end the numerical summary has also been added to the table. From this it appears that but 4 per cent of the articles have to-day the same prices which they had in 1860. Of the remaining 96 per cent there has been a rise in price in 27.4 per cent of all the articles and a fall in price in 68.6 per cent of the articles.

The changes in price and their degree are brought out more clearly in Table 3, which follows, and which shows the changes by groups of articles as well as for the total:

TABLE 3.—*Changes in prices, 1891 compared with 1860.*

Groups.	Number of articles.	Rise 200 per cent or more.	Rise 100 to 200 per cent.	Rise 50 to 100 per cent.	Rise 25 to 50 per cent.	Rise 10 to 25 per cent.	Rise less than 10 per cent.	Uniform.	Fall less than 10 per cent.	Fall 10 to 25 per cent.	Fall 25 to 50 per cent.	Fall 50 per cent or more.
Food	53	1	1	3	7	8	6	4	3	5	14	1
Cloths and clothing	28	.....	.....	.....	.....	2	.....	1	3	14	8	.....
Fuel and lighting	10	.....	.....	.....	.....	1	.....	1	3	1	1	1
Metals and implements	54	.....	.....	.....	3	1	.....	.....	6	10	31	3
Lumber and building materials	35	1	1	8	6	2	.....	1	2	11	3	...
Drugs and chemicals	18	1	.....	.....	1	1	2	.....	.....	2	4	7
House furnishing goods	15	.....	.....	.....	1	.....	.....	1	2	5	1	5
Miscellaneous	10	.....	.....	.....	1	1	.....	1	5	.....	3	.....
Total	223	3	2	11	19	16	10	9	24	48	64	17

It is quite evident from this table that increased prices are infrequent except in the groups food, and lumber and building materials.

To obtain as full a view as possible of the changes in prices in 1891 as compared with former dates, it has been thought well to institute as

far as possible a comparison with the initial year of the investigation, 1840. There are eighty-five articles for which prices are given in 1840 and 1891. Table 4 has been prepared on the same plan as Table 2 and is here inserted:

TABLE 4.—*Relative prices, 1891 compared with 1840.*

FOOD, 30 ARTICLES.

Rise less than 10 per cent:	
Cheese	105.6
Flour, rye	107.5
Rise 10 to 25 per cent:	
Spices, pepper, whole, Sumatra	120.0
Molasses, Porto Rico, best	120.0
Molasses, New Orleans, prime	124.1
Rise 25 to 50 per cent:	
Fish, mackerel, salt, shore, No. 2	133.4
Rise 50 to 100 per cent:	
Butter	150.0
Fruit, raisins	152.7
Salt, Ashton's Liverpool, fine	156.3
Salt, Ashton's	172.3
Fish, mackerel, salt, shore, No. 1	188.2
Rice, Carolina, prime	195.5
Rise 100 to 200 per cent:	
Fish, mackerel, salt, shore, No. 3	209.1
Coffee, Rio, fair	211.0
Fall 10 to 25 per cent:	
Bread, ship biscuits	90.0
Meat, pork, salt, mess	86.8
Meat, ham, sugar-cured	84.8
Meal, corn, yellow, kiln-dried	83.8
Meat, bacon, clear	81.7
Lard	81.4
Salt, fine, boiled	81.3
Salt, Turk's Island	78.1
Fall 25 to 50 per cent:	
Sugar, fair refining	74.4
Lard, pure leaf	70.8
Spices, nutmegs	70.6
Meat, beef, salt, mess	56.0
Salt, coarse, solar	55.6
Tallow, prime, city, in hogsheads	51.4
Fall 50 per cent or more:	
Sugar, refined, crushed and granulated	49.5
Fruit, currants, Zante	43.2

CLOTHS AND CLOTHING, 9 ARTICLES.

Rise 25 to 50 per cent:	
Leather, harness	136.2
Fall less than 10 per cent:	
Cotton, upland, middling	94.3
Sole leather, first quality, etc	90.1
Fall 10 to 25 per cent:	
Hides, dry, Buenos Ayres	87.7
Fall 25 to 50 per cent:	
Broadcloths, second quality, black, 54-in., etc	72.3
Tickings, Amoskeag, A. C. A	68.6
Broadcloths, first quality, black, 54-in., etc	62.5
Carpets, ingrain, 2-ply, Lowell	58.8
Fall 50 per cent or more:	
Calico, Cocheco prints	50.0

FUEL AND LIGHTING, 1 ARTICLE.

Fall 50 per cent or more:	
Matches, 8-card	19.5

METALS AND IMPLEMENTS, 12 ARTICLES.

Rise less than 10 per cent:	
Rope, manila	104.7
Rise 50 to 100 per cent:	
Spelter, imported	155.5
Fall less than 10 per cent:	
Lead, pig	92.5
Fall 10 to 25 per cent:	
Lead, pig	85.2
Copper, sheet	78.6
Copper, ingot	77.8
Fall 25 to 50 per cent:	
Rope, tarred, Russian	75.0
Wood screws, 1-in., No. 10, flat head, iron	72.8
Lead, drop shot	68.9
Quicksilver	66.4
Fall 50 per cent or more:	
Iron rods, for making wood screws	42.0
Nails, cut	33.8

LUMBER AND BUILDING MATERIALS, 15 ARTICLES.

Rise 10 to 25 per cent:	
Hemlock boards, first quality, 1-in., etc.	113.8
Spruce, boards, 1-inch	123.5
Rise 25 to 50 per cent:	
Tar, Wilmington	133.3
Pine, flooring, white, extra, ½-in., etc	133.4
Pine, boards, white, common, 1-in., etc	142.8
Shingles, pine, 16-in. XXX	145.0
Shingles, pine, 16-in., extra XXX, sut	145.5
Rise 50 to 100 per cent:	
Turpentine	150.1
Pine, boards, white, clear, 1-in., etc	160.0
Pine, boards, white, clear, extra, 1-in., etc.	183.3
Fall 10 to 25 per cent:	
Carbonate of lead, in oil	88.0
Lime, Rockland	80.0
Fall 25 to 50 per cent:	
Doors, pine, unmoulded, etc	71.4
Window glass, American, 10 by 14, firsts, single	59.1
Fall 50 per cent or more:	
Putty	50.0

TABLE 4.—*Relative prices, 1891 compared with 1840*—Concluded.

DRUGS AND CHEMICALS, 15 ARTICLES.

Rise less than 10 per cent:		Fall 10 to 25 per cent:	
Linseed oil	109.0	Sugar of lead, white	84.2
Rise 10 to 25 per cent:		Flaxseed	79.1
Opium	112.4	Fall 25 to 50 per cent:	
Rise 200 per cent or more:		Mercury	64.1
Alcohol	403.4	Calomel	50.0
		Blue vitriol	5[illegible].0
		Fall 50 per cent or more:	
		Soda ash	50.0
		Brimstone, crude	47.[illegible]
		Alum, lump, crystal	35.0
		Copperas	33.[illegible]
		Sulphuric acid	25.0
		Muriatic acid	21.9
		Quinine	9.2

HOUSE FURNISHING GOODS, 2 ARTICLES.

Rise 25 to 50 per cent:		Fall 25 to 50 per cent:	
Tubs, wooden	138.9	Pails, wooden, 2-hoop	53.3

MISCELLANEOUS, 1 ARTICLE.

Fall 50 per cent or more:	
Soap, castile, mottled, imported	50.0

NUMERICAL SUMMARY.

	Number of articles	Per cent.
Prices which rise—		
200 per cent or more	1	1.2
100 to 200 per cent	2	2.4
50 to 100 per cent	10	11.8
25 to 50 per cent	8	9.4
10 to 25 per cent	6	7.1
Less than 10 per cent	4	4.7
Prices which remain uniform		
Prices which fall—		
Less than 10 per cent	3	3.5
10 to 25 per cent	16	18.8
25 to 50 per cent	20	23.5
50 per cent or more	15	17.6
Total	85	100.0

The comparison of 1891 prices with 1840 shows a larger proportion of higher prices than the comparison of 1891 prices with 1860. This is brought out plainly in the numerical summary, from which it appears that while prices were higher in 36.6 per cent of the cases they were lower in 63.4 per cent of all the cases. Attention should be called also to the large proportion of extreme variations, particularly among the decreased prices. Table 5 shows the changes in price by groups in detail. Cases of increased prices are again confined almost exclusively to the groups food, and lumber and building materials.

TABLE 5.—*Changes in prices, 1891 compared with 1840.*

Groups.	Number of articles.	Rise 200 per cent or more.	Rise 100 to 200 per cent.	Rise 50 to 100 per cent.	Rise 25 to 50 per cent.	Rise 10 to 25 per cent.	Rise less than 10 per cent.	Uniform.	Fall less than 10 per cent.	Fall 10 to 25 per cent.	Fall 25 to 50 per cent.	Fall 50 per cent or more.
Food	30	.....	2	6	1	3	2	.....	.....	8	6	2
Cloths and clothing	9	.....	.....	.....	1	.....	.....	.....	2	1	4	1
Fuel and lighting	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Metals and implements	12	.....	.....	1	.....	.....	1	.....	1	3	4	3
Lumber and building materials	15	.....	.....	3	5	2	.....	.....	.....	2	2	1
Drugs and chemicals	15	1	.....	.....	.....	1	1	.....	.....	2	3	7
House-furnishing goods	2	.....	.....	.....	1	.....	.....	.....	.....	.....	1	.....
Miscellaneous	1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1
Total	85	1	2	10	8	6	4	.....	3	16	20	15

In these tables it is shown that the range of variation for the different articles included in the list is quite considerable, and it is difficult to gain an idea of the general condition of prices as compared with 1860 unless some method be adopted by which this body of facts can be reduced to a single expression. A familiar method of ascertaining what has been the general course of prices is to divide the sum of relative prices by the number of articles included in the list. In this manner we can ascertain the average tendency in the prices of these articles. In Table 6 we give the prices of 1891 as compared with 1860 by groups of articles and for the total number.

TABLE 6.—*Relative prices, 1891 compared with 1860, by groups.*

Group.	1	2	3
	Number of articles.	Sum of relative prices.	Division of 2 by 1.
Food	53	5,507.1	103.9
Cloths and clothing	28	2,269.4	81.1
Fuel and lighting	10	910.0	91.0
Metals and implements	54	4,043.5	74.9
Lumber and building materials	35	4,279.3	122.3
Drugs and chemicals	18	1,553.8	86.3
House furnishing goods	15	1,051.8	70.1
Miscellaneous	10	950.9	95.1
Total	223	20,565.8	92.2

We find that these prices, on an average, are 92.2 per cent of what the prices were for the year 1860. In the different groups concerned there is a considerable variation. Thus there are two groups in which the average price to-day is greater than it was in 1860: food, which stands at 103.9, and lumber and building materials, which stands at 122.3. In regard to the latter an investigation of Table 1 will show that the main increase has been in lumber, other building materials showing some tendency to decline in prices. It will be observed that the minimum price is found in house furnishing goods, 70.1. Two important groups, representing almost exclusively manufactured products, show a considerable decline. They are metals and implements at 74.9 and cloths and clothing at 81.1. The statement which we have here made as to the average price of 1891 as compared with 1860 represents only the average fluctuation of the prices represented. It need not be insisted that each article in the list, no matter how important or how insignificant, has had an equal value in determining this result.

It is further evident that where an extreme variation occurs the price for the whole number of articles or for the particular group may be seriously affected by this fact. Thus, for instance, in the group food, we have the most extraordinary price of codfish at 312.5. If codfish be omitted from the calculation, the average for food would be reduced 4 per cent and would stand at less than 100, at 99.9 instead of 103.9, a difference by no means inconsiderable. At the same time it should be remembered that codfish is one of the extreme instances, and that, while the effect upon food from the omission of codfish is to reduce the relative price 4 per cent, the change which its omission effects in the general result for 223 articles is only 1 per cent, a change in the result from 92.2 to 91.2, so that after all, if these abnormal prices be few—and an examination of the table will show that this is the case—it is clear that the figures which we have given approximate the actual condition of prices to-day as compared with the year 1860.

A comparison similar to that which has been made above for 1860 can be made for the lesser number of articles whose prices reach back to the year 1840. Taking that year as the basis, expressing the prices in 1891 in terms of it, and summarizing as before by groups, we have the following table, 7.

TABLE 7.—*Relative prices, 1891 compared with 1840, by groups.*

Groups.	1	2	3
	Number of articles.	Sum of relative prices.	Division of 2 by 1.
Food	30	3,285.4	109.5
Cloths and clothing	9	720.6	80.1
Fuel and lighting	1	19.5	19.5
Metals and implements	12	953.2	79.4
Lumber and building materials	15	1,779.2	118.6
Drugs and chemicals	15	1,183.7	78.9
House furnishing goods	2	192.2	96.1
Miscellaneous	1	50.0	50.0
Total	85	8,183.8	96.3

As in the previous comparison, we see increased prices only in the groups food, and lumber and building materials. In other groups the decline in prices is not so marked for the 85 articles compared with 1840 as it was for 223 articles compared with 1860. The difference for all articles is less than in the former comparison.

It is not meant, however, that the results of these comparisons are absolute, for it must be evident that a list containing so many articles as the present must necessarily include many of comparatively slight importance, either to the individual or to the nation as a whole. If we seek the real effect of the changes which have occurred in prices, we must measure them in some way by the amounts in which the articles are consumed. Otherwise, it might easily happen that the price of an article rarely used would outbalance one which was consumed daily. Thus, the relative price of wheat flour is 72.1 and of nutmegs, 142.9. It would be manifestly meaningless to assert that the average price of these two articles was 107.5. The only proper method by which an average of these two articles could be obtained would be to assign to each an importance in the result equal to its importance in the consumption of families.

Undoubtedly the best measure of the proper proportions in which the various articles included in our list should enter into the general result is the consumption of families. Fortunately we have the facts from which we can ascertain with a great degree of accuracy the values of various articles consumed by a large number of families, which may be considered typical of the expenditure of the mass of the people. In his recent reports upon the cost of production the Commissioner of Labor has furnished voluminous tables relating to family earnings and expenses. From these tables we can ascertain the proportion in which the various articles of consumption enter into the budget of the classes concerned. The table which we shall use as the basis of comparison is based upon Table XLIV of the Seventh Annual Report. It is that which furnished the basis of our analysis of retail prices. The table, which is here inserted, gives the statement of the relative expenditure for the main groups of family expenses of 2,561 (*a*) normal

(*a*) The number of families is from a preliminary manuscript table which was used in the Report on Retail Prices and Wages, and is therefore preserved here. The addition of one family in the published Report of the Department of Labor makes immaterial changes in the proportions. They are: rent, 1,505; food, 4,105; fuel, 501; clothing, 1,531; lighting, 90; and all other purposes, 2,268.

families selected from the larger number which are contained in the reports on the cost of production. It should be noted that a normal family, according to the definition adopted by the Commissioner, is one which has no boarders or dependents, does not own its dwelling place; has an expenditure given for rent, fuel, lighting, clothing, and food, has both a husband and a wife, and has not more than five children, no one of which is over 14 years of age.

TABLE 8.—*Distribution of expenditure for 2,561 normal families.*

Group.	Proportions of 10,000.
Rent	1,506
Food	4,103
Fuel	500
Clothing	1,531
Light	90
All other purposes	2,270
Total	10,000

The table we have given includes only the main groups of family expenses. It tells us nothing of the expenditure within the groups mentioned, but as the most important group, food, includes over 40 per cent of the total expenditure it is highly important to discover in what proportions the different articles of food enter into this result. While this might have been done from the tables presented in the reports of the Commissioner, which give the details of expenditure for the different articles of food and of clothing, this would not have been altogether satisfactory. In the grouping for food adopted by the Department of Labor there are two general groups, one, meat not specified, and the other, food not specified. These assume very considerable proportions in any general average from the figures of the Department. In order to obviate this difficulty, therefore, special budgets were collected in various places in the United States with a view to obtaining a greater degree of accuracy in regard to the details of expenditure both for food and clothing than was possible in the general report of the Commissioner. The budgets which are embodied in Tables VI and VII in the report on retail prices cover a large variety of occupations and may be considered representative of the expenditure in the classes of the community which they represent. These budgets contain a more accurate statement for food, and a more specific statement of expenditure for clothing than was made in the reports of the Department.

Following the methods employed in the report on retail prices, we shall use the general distribution of expenditure already given for normal families, and confine the use of the special budgets to the distribution of expenditure within the groups, food, clothing, and other purposes. The expenditure for food, clothing, and miscellaneous purposes is given in Table 9. The table shows the actual amount expended, the quota per capita, and the proportional amount that each item bears to the total.

TABLE 9.—*Expenditure of 232 families for certain purposes.*

FOOD.

Group.	Total.	Per family.	Proportion of 10,000.
Beef	$9,501.76	$40.95	1,561
Hog products	3,990.03	17.20	655
Meat (not specified)	3,735.09	16.10	614
Poultry	645.35	2.78	106
Fish	690.26	2.97	113
Eggs	1,920.24	8.28	316
Milk	3,484.04	15.02	572
Butter	6,737.67	29.04	1,107
Cheese	401.66	1.73	66
Tea	1,046.36	4.51	172
Coffee	3,242.92	13.97	532
Sugar	3,872.69	16.69	636
Molasses	333.53	1.44	55
Lard	1,222.19	5.27	201
Flour and meal	6,223.65	28.62	1,022
Bread	2,648.86	11.42	436
Rice	144.09	.62	24
Fruit	2,040.84	8.80	332
Potatoes	2,764.49	11.92	454
Vegetables (not specified)	2,910.88	12.55	479
Vinegar, pickles, and condiments	430.37	1.86	71
Food (not specified)	2,894.51	12.47	476
Total	60,881.48	262.42	10,000

CLOTHING.

Group.	Total.	Per family.	Proportion of 10,000.
Husband:			
Coats, vests, trousers, overcoats	$3,271.51	$14.11	1,407
Boots and shoes	1,093.65	4.71	470
Hats	401.72	1.73	173
Underclothes	637.23	2.75	274
Shirts	346.47	1.49	149
Miscellaneous	2,091.41	9.01	899
Total	7,841.99	33.80	3,371
Wife:			
Dresses, cloaks, shawls	1,915.78	8.26	824
Boots and shoes	826.60	3.56	354
Underclothes	591.92	2.55	254
Miscellaneous	1,946.56	8.39	836
Total	5,280.86	22.76	2,268
Children:			
Coats, etc	1,415.50	6.10	608
Dresses, etc	1,527.72	6.59	657
Boots and shoes	1,799.66	7.76	774
Hats	645.94	2.78	277
Underclothes	686.98	2.96	295
Shirts	71.29	.31	31
Miscellaneous	4,003.42	17.25	1,719
Total	10,150.51	43.75	4,361
Husband	7,841.99	33.80	3,371
Wife	5,280.86	22.76	2,268
Children	10,150.51	43.75	4,361
Total	23,273.36	100.31	10,000

TABLE 9.—*Expenditure of 232 families for certain purposes*—Concluded.

MISCELLANEOUS PURPOSES (ALL EXPENDITURES EXCEPT FOR FOOD, CLOTHING, RENT, LIGHTING, AND FUEL).

Group.	Total.	Per family.	Proportion of 2,270.*
Taxes	$1,936.07	$8.34	115
Insurance	2,546.74	10.98	151
Organizations	1,118.59	4.82	66
Religion	1,556.20	6.71	92
Charity	411.72	1.77	24
Furniture and utensils	4,258.27	18.36	253
Books and newspapers	1,686.90	7.27	100
Amusements	1,550.20	6.68	92
Intoxicating liquors	2,816.15	12.14	168
Tobacco	1,789.77	7.71	107
Illness and death	5,650.56	24.36	335
Other purposes	12,908.90	55.64	767
Total	38,230.07	164.78	2,270

* This is the proportion of this class of expenditure in the total of 10,000.

Before considering the application of these ratios and amounts to the relative prices which have been ascertained for 1891 we must consider two objections which might possibly be raised to such a plan. It might be objected, in the first place, that the figures in regard to the consumption of articles relate to the year 1891 and not to 1860. It might be thought that the most correct measurement of the cost of living would be found by taking what was consumed in 1860 on the one side and what was consumed in 1891 on the other as the basis for the respective periods. If this were impossible it might be clearer to take the consumption of 1860 as a basis and show what the prices in 1891 would have been, based, on the same consumption as in 1860. It will be recognized that both of these are theoretical requirements. It is absolutely impossible to secure the data required, since the records of family expenditure in 1860 were not collected at the time and are no longer extant. The comparison must take the form of ascertaining the consumption at the present time and find its cost as compared with the same consumption at a prior date. In fact it must be recognized that this is not only the only practicable method to be employed, but that it is theoretically correct since we must compare like with like, and that we could not, even if we had the figures, properly compare the consumption of 1860 with that of 1891 to show the effect of changes in price, for if there were any changes, they would probably be shown by the budgets themselves without bringing them into relation with the prices.

In the second place it might be objected that since the prices with which we are here concerned are wholesale prices and not those paid by the consumer, that it is incorrect to bring these prices into relation with the consumption of articles bought at retail as ascertained by the budgets. However, this objection is valid only in case there has been a different movement of retail prices since the beginning of the period than of wholesale prices. If, on the other hand, it is believed that the wholesale and retail prices have borne a more or less fixed relation during this entire period, it must be evident that the course of wholesale prices is indicative of the course of retail prices. As we are dealing exclusively with relative prices it would make absolutely no difference in the latter case whether the prices upon which our calculations were based were retail or wholesale. There can be no doubt that for the purpose of these comparisons retail prices would have been less open to question than wholesale prices. But the probable error arising from the use of wholesale prices in this connection is

not large enough to seriously affect the accuracy and validity of the results which may be reached. It need only be said that the ascertainment of wholesale instead of retail prices for this report was an absolute necessity, as the records of retail sales are not accessible.

We may now deal with the application of the relative prices in 1891 to the volume of consumption. It will be observed that while the prices are for individual articles, the consumption, as indicated in the preceding tables is, in some cases at least, for groups of articles. In order to apply our prices, therefore, to these groups it will be necessary to combine them. The combinations which have been made for food are indicated in the annexed Table, 10.

TABLE 10.—*Formation of group ratios—Food.*

1. Beef—
   - Beef, ribs.
   - Beef, loins.
2. Hog products—
   - Ham.
   - Bacon.
   - Salt pork, mess.
3. Meat not specified—
   - 2 beef (group 1 above.)
   - 2 hog products (group 2 above).
   - 1 lamb.
   - 1 mutton.
   - 1 beef, salt, mess.
4. Fish—
   - Cod.
   - Mackerel, No. 1.
   - Mackerel, No. 2.
   - Mackerel, No. 3.
5. Molasses—
   - New Orleans.
   - Porto Rico.
6. Flour and meal—
   - 2 wheat flour.
   - 1 rye flour.
   - 1 corn meal.
7. Lard—
   - Lard.
   - Lard, pure leaf.
8. Fruit—
   - Dried apples.
   - Currants.
   - Raisins.
9. Vinegar and condiments—
   - Salt (average of coarse solar, and fine boiled).
   - Pepper.
   - Nutmegs.

While, as a general thing, no attempt has been made to do more than average the various articles comprised in a single group, there are occasional exceptions in which one article is assigned a greater importance than the others. This has been done in order to roughly approximate the proper amount to be included, so as to prevent articles of inferior importance outweighing in the result those which are manifestly the main components of the group. The grouping which is here given explains perfectly all of the groups except the final one of food not specified. It is possible to suppose that this refers either to different kinds of food from those already mentioned or else to the same items not specifically reported. An examination of the price lists shows that the grouping, as given above, includes every article found in it, and we are, therefore, forced to the conclusion that this group, food not specified, refers to those that have already been considered. Meat is to be excepted, since meat not specifically mentioned is included in the group, meat not specified. In order to obtain, therefore, a relative price for the group, food not specified, we have found the average price for the various articles of food already mentioned with the exception of meat. The formation of groups having been explained their application to the prices for 1891 is shown in the following Table 11.

TABLE 11.—*Relative prices of food, 1891, measured by its consumption.*

	Group.	Importance.	Index.	Result.*
1	Beef	1,561	106.2	1,657,782
2	Hog products	655	91.1	596,705
3	Meat not specified	614	98.2	602,948
4	Poultry	106	.....	.....
	Total meat	2,830	101.0	2,857,435
5	Fish	113	214.3	242,159
6	Eggs	316	109.6	346,336
7	Milk	572	100.0	572,000
8	Butter	1,107	128.6	1,423,602
9	Cheese	66	95.0	62,700
10	Tea	172	.....	.....
11	Coffee	532	165.2	878,864
12	Sugar	636	59.4	377,784
13	Molasses	55	81.3	44,715
14	Lard	201	57.5	115,575
15	Flour and meal	1,022	82.5	843,150
16	Bread	436	102.2	445,592
17	Rice	24	126.5	30,360
18	Fruit	332	95.5	317,060
19	Potatoes	454	100.0	454,000
20	Vegetables	479	.....	.....
21	Vinegar	71	101.4	71,994
	Total (except meat)	5,937	104.9	6,225,891
22	Food not specified	476	104.9	499,324
	Meat	2,830	101.0	2,857,435
	Grand total	9,243	103.7	9,582,650

*Here and elsewhere the decimal points are omitted in performing the multiplication. The column headed result gives the product of multiplying the importance by the index or ratio.

It will be noticed that the foregoing statement does not include the total expenditure for food as set forth in the table of consumption. There are three groups for which it was impossible to obtain the figures, either because of the inadequacy of the records or because of the extreme difficulty of obtaining prices for absolutely identical goods at different periods. The first is the reason why no figures were secured for the prices of poultry and vegetables, while the second is the cause of the omission of tea. However, the statement as given in Table 11 covers 92 per cent of the total expenditure for food, and we may, therefore, consider it representative of the entire expenditure without doing any serious violence to the facts in the case. It is perfectly fair to assume that the portion of the food expenditure which is not represented would show the same tendency as that which is.

The application of the price figures to the consumption of clothing has been one of considerable difficulty. We are met at the outset by the fact that while the consumption as indicated in the table gives the expenditure for certain garments, the prices comprise mainly the materials out of which the garments are made. Thus we are forced to substitute the materials for the garments. A more serious difficulty arises from the fact that there are but 28 articles in the long list of prices for cloths and clothing which cover the period from 1860 to the present time. Some of these further are inapplicable to the calculations which we have in hand. They are the prices of raw wool, raw cotton, and of carpets. Besides these it has been deemed necessary to omit from our calculations the prices of broadcloths as being an article no longer in common use, and of so limited consumption that it is not indicative of the course of prices for the average consumer. This reduces further the number of quotations covering the period from 1860 to 1890 which are available for the comparisons which we have in hand. In

order to avail ourselves of the very large number of articles included in the list of cloths and clothing a special calculation for this group has been made upon the basis of 1890, the prices in that year being expressed as 100, the prices of previous years representing percentages of the same. Our series is, therefore, exactly the reverse of that which is used in the other calculations. But by adopting this method as a basis we are able to include, at least so far as the quotations reach, all the quotations in the list. The facts developed by this analysis are given in the following table:

TABLE 12.—*Relative prices of cloths and clothing, compared with 1890.*

GROUP I.—SUITINGS.

Year.	Cassimeres, all wool.		Cassimeres, Sawyers, made of X and XX wool.						Suitings.			
	3-4, 7-ounce, Harris double and twist.	3-4, 12-ounce, Harris double and twist.	28-inch, 8½-ounce, double and twist.	28-inch, 8½-ounce, double and twist.	28-inch, 11½-ounce, double and twist.	28-inch, 11½-ounce.	28-inch, 11½-ounce.	28-inch, 11½-ounce.	All wool, indigo blue, 54-inch, 14-ounce, Middlesex standard.	Crêpe diagonal, 6-4, 18 to 19-ounce, Riverside.	Crêpe diagonal, 6-4, 23 to 24-ounce, Riverside.	Flannel, all wool, indigo blue, 6-4, Assabet.
1860	127.4	112.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1861	127.4	112.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1862	141.5	123.6	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1863	215.1	161.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1864	215.1	181.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1865	215.1	222.3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1866	215.1	202.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1867	161.3	181.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1868	147.9	181.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1869	134.4	141.5	147.4	.....	.....	.....	.....	.....	125.0	.....	.....	.....
1870	134.4	141.5	134.3	.....	136.2	.....	.....	.....	125.0	.....	.....	.....
1871	147.9	161.7	134.3	150.3	127.1	.....	.....	.....	125.0	.....	.....	.....
1872	147.9	181.9	147.4	161.1	145.4	158.9	.....	.....	125.0	.....	.....	.....
1873	147.9	161.7	147.4	153.1	147.8	147.8	181.6	.....	125.0	.....	.....	.....
1874	139.8	161.7	134.3	139.4	124.6	136.2	181.6	.....	105.9	.....	.....	.....
1875	134.4	141.5	129.1	139.4	127.1	136.2	136.2	136.2	105.9	.....	.....	.....
1876	107.5	121.3	134.3	121.1	127.1	120.8	136.2	113.5	105.9	.....	.....	111.4
1877	107.5	121.3	119.4	119.4	112.1	112.1	106.8	106.8	105.9	.....	.....	111.4
1878	107.5	111.2	111.4	106.3	108.4	108.4	101.0	112.1	105.9	.....	.....	111.4
1879	.....	.....	106.3	106.3	103.4	103.4	101.0	101.0	105.9	105.3	110.3	111.4
1880	.....	.....	111.4	111.4	112.1	112.1	112.1	112.1	105.9	115.8	130.3	111.4
1881	.....	.....	116.6	116.6	112.1	112.1	112.1	112.1	105.9	105.3	110.3	111.4
1882	.....	.....	116.6	116.6	112.1	112.1	112.1	112.1	105.9	105.3	110.3	111.4
1883	.....	100.0	116.6	116.6	112.1	112.1	106.8	106.8	100.0	105.3	110.3	111.4
1884	119.7	100.0	110.9	110.9	108.2	108.2	103.4	103.4	100.0	100.0	104.8	108.2
1885	108.4	100.0	110.9	106.3	101.9	98.6	98.6	98.6	100.0	100.0	104.8	99.0
1886	108.4	100.0	106.3	106.3	103.4	103.4	103.4	103.4	100.0	105.3	104.8	105.2
1887	105.3	100.0	105.1	105.1	102.4	102.4	102.4	102.4	100.0	100.0	104.8	102.1
1888	105.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	95.2	100.0
1889	105.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	94.7	100.0	100.0
1890	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1891	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 12.—*Relative prices of cloths and clothing, compared with 1890*—Continued.

GROUP I.—SUITINGS—Concluded.

Year.	Suitings.		Cassimeres.					Overcoatings.		Average.
	Worsted, Birdseye, 6-4, 18 to 19-ounce, Riverside.	Worsted, Birdseye, 6-4, 23 to 24-ounce, Riverside.	All wool, fancy, heavy weight.	All wool, fancy, light weight.	All wool, 8-4, 12-ounce, Harris silk mixed.	All wool, 3-4, fancy, heavy weight.	Cheeks, black and white, all wool, 8-4, 7-ounce, Harris.	Elysian, all wool, 6-4, 32-ounce, Harris.	Rattine, all wool, 6-4, 32-ounce, Harris.	
1860	.....	.....	.....	.....	136.3	.....	114.7	.....	.....	122.7
1861	.....	.....	.....	.....	136.3	.....	114.7	.....	.....	122.7
1862	.....	.....	.....	.....	146.0	148.4	124.3	.....	.....	136.6
1863	.....	.....	.....	.....	173.4	.....	167.3	.....	.....	179.4
1864	.....	.....	.....	.....	192.7	270.4	167.3	.....	.....	205.5
1865	.....	.....	.....	.....	250.5	234.9	191.2	.....	.....	225.8
1866	.....	.....	.....	.....	221.6	190.3	191.2	.....	.....	204.1
1867	.....	.....	.....	.....	192.7	170.0	147.6	.....	.....	170.7
1868	.....	.....	.....	.....	192.7	162.3	147.6	.....	.....	166.5
1869	.....	.....	.....	.....	173.4	.....	147.6	.....	.....	144.9
1870	.....	.....	.....	.....	173.4	.....	147.6	.....	.....	141.5
1871	.....	.....	.....	.....	173.4	160.0	158.9	.....	.....	149.0
1872	.....	.....	.....	.....	192.7	157.3	158.9	.....	.....	157.7
1873	.....	.....	.....	.....	154.2	158.6	158.9	.....	.....	153.1
1874	.....	.....	154.0	153.5	173.4	.....	136.2	.....	.....	145.1
1875	.....	.....	150.8	145.9	163.8	.....	136.2	.....	.....	137.1
1876	.....	.....	135.7	126.7	154.2	.....	102.2	117.3	129.0	122.8
1877	.....	.....	128.2	124.7	125.3	.....	102.2	117.3	129.0	115.6
1878	.....	.....	108.6	115.2	106.0	.....	102.2	117.3	129.0	109.5
1879	.....	110.3	105.6	118.2	.....	.....	.....	104.3	114.7	107.2
1880	105.3	130.3	150.8	126.3	.....	.....	.....	.....	.....	117.7
1881	105.3	110.3	132.1	117.7	.....	122.1	.....	.....	.....	113.5
1882	105.3	110.3	132.1	117.7	.....	128.2	.....	.....	.....	113.9
1883	105.3	110.3	117.5	112.1	.....	.....	.....	.....	.....	109.5
1884	100.0	104.8	105.7	102.6	123.9	102.9	134.8	.....	.....	108.0
1885	100.0	104.8	95.4	97.2	114.4	101.7	112.3	107.5	118.3	103.6
1886	105.3	110.3	102.8	102.6	123.9	107.8	101.1	107.5	118.3	106.1
1887	105.3	104.8	105.7	102.6	122.6	99.6	100.0	107.5	107.5	104.2
1888	100.0	100.0	102.8	99.0	113.2	106.4	100.0	100.0	100.0	101.0
1889	100.0	100.0	100.0	100.0	103.8	104.1	100.0	100.0	100.0	100.4
1890	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1891	100.0	100.0	100.0	100.0	94.3	.....	94.4	100.0	100.0	99.4

TABLE 12.—*Relative prices of cloths and clothing, compared with 1890*—Continued.

GROUP II.—CARPETS.

Year.	Carpets.			Average.
	Brussels, 5-frame, Bigelow.	Brussels, 5-frame, Lowell.	Ingrain, 2-ply, Lowell.	
1860	120.9	.....	133.3	127.1
1861	111.6	.....	135.2	123.4
1862	120.9	.....	142.1	131.5
1863	162.8	.....	199.1	186.0
1864	200.0	.....	239.1	219.6
1865	325.6	.....	347.3	337.0
1866	255.8	.....	322.1	289.0
1867	255.8	.....	319.3	287.6
1868	223.3	.....	238.5	230.9
1869	232.6	.....	230.4	231.5
1870	232.6	.....	220.0	226.3
1871	186.0	.....	203.5	194.8
1872	200.0	206.4	228.0	211.5
1873	195.3	168.6	211.9	191.9
1874	186.0	184.2	193.4	187.9
1875	186.0	180.5	175.1	180.5
1876	186.0	187.9	174.2	182.7
1877	162.8	168.0	154.7	161.8
1878	144.2	123.5	142.4	136.7
1879	132.6	125.9	118.1	125.5
1880	127.9	129.2	157.0	138.0
1881	134.9	126.2	141.4	134.2
1882	125.6	128.1	147.6	133.8
1883	125.6	127.2	146.7	133.2
1884	118.6	119.9	124.3	120.9
1885	111.6	106.3	109.0	109.0
1886	104.7	106.2	120.4	110.4
1887	104.7	106.3	114.6	108.5
1888	102.3	102.7	104.6	103.2
1889	100.0	100.2	100.2	100.1
1890	100.0	100.0	100.0	100.0
1891	109.3	108.7	104.5	107.5

TABLE 12.—*Relative prices of cloths and clothing, compared with 1890*—Continued.

GROUP III.—BLANKETS AND FLANNELS.

Year.	Blankets.							
	10-4, Housekeeper, white, all wool.	11-4, 5 pounds to the pair, cotton warp, cotton and wool filling.	11-4, 5 pounds to the pair, cotton warp, cotton and wool filling.	11-4, 5 pounds to the pair, cotton warp, all wool filling.	11-4, 5 pounds to the pair, cotton warp, all wool filling.	11-4, 7 pounds to the pair, all wool, California.	11-4, 8 pounds to the pair, cotton warp, all wool filling, scarlet.
1860	.....	.....	130.4	120.7	.....	.....	.....
1861	.....	.....	119.6	112.1	.....	.....	.....
1862	.....	.....	141.3	129.3	.....	.....	.....
1863	.....	.....	156.5	134.5	.....	.....	.....
1864	.....	.....	156.5	137.9	.....	.....	.....
1865	.....	.....	.....	146.6	.....	.....	.....
1866	.....	.....	.....	129.3	.....	.....	.....
1867	.....	.....	.....	120.7	.....	.....	.....
1868	.....	.....	.....	112.1	.....	.....	.....
1869	.....	.....	.....	113.8	.....	.....	.....
1870	.....	.....	.....	113.8	.....	.....	.....
1871	.....	.....	.....	117.2	.....	.....	.....
1872	.....	.....	.....	134.5	.....	.....	.....
1873	.....	.....	.....	146.6	.....	112.9	147.5
1874	.....	.....	.....	137.9	129.2	109.7	142.4
1875	.....	.....	.....	137.9	132.3	111.0	140.7
1876	.....	.....	.....	124.1	121.5	108.4	120.3
1877	.....	.....	.....	110.3	107.7	102.6	108.5
1878	119.3	.....	.....	103.4	101.5	96.8	100.0
1879	126.3	112.1	108.7	103.4	103.1	98.1	103.4
1880	157.9	124.2	121.7	115.5	115.4	101.9	115.3
1881	140.4	118.2	115.2	110.3	109.2	87.1	108.5
1882	126.3	112.1	108.7	105.2	104.6	90.3	105.1
1883	119.3	100.0	100.0	100.0	101.5	93.5	98.3
1884	105.3	90.9	89.1	93.1	95.4	96.8	89.8
1885	105.3	100.0	97.8	94.8	95.4	96.8	91.5
1886	119.3	103.0	104.3	100.0	100.0	100.0	98.6
1887	109.5	103.0	100.0	100.0	100.0	103.2	101.7
1888	105.3	103.0	100.0	100.0	100.0	100.0	103.4
1889	105.3	106.1	104.3	103.4	103.1	103.2	105.1
1890	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1891	97.5	100.0	100.0	100.0	100.0	96.8	100.0

TABLE 12.—*Relative prices of cloths and clothing, compared with 1890*—Continued.

GROUP III.—BLANKETS AND FLANNELS—Concluded.

Year.	Flannels.			Blankets.		Horse blankets.				Average.
	Twilled blue, 3-4, Talbot T.	Twilled scarlet, 3-4, F and C.	White, 4-4, Ballard Vale, No. 8.	11-4, 5 pounds to the pair, all wool.	11-4, 6 pounds to the pair, cotton and wool warp, all wool filling, California.	5 pounds, cotton warp, shoddy filling.	6 pounds, cotton warp, shoddy and wool filling.	6 pounds, all wool.	7 pounds, all wool.	
1860								118.4		123.2
1861								108.8		113.5
1862								123.2		131.3
1863								128.0		139.7
1864								129.6		141.3
1865								144.0		145.3
1866								131.2		130.3
1867								120.0		120.4
1868								112.0		112.1
1869								118.4		116.1
1870	138.5							113.6		122.0
1871	145.7							118.4		127.1
1872	163.2							132.8		148.4
1873	171.0							144.0		148.8
1874	144.1	144.1						121.6		132.7
1875	136.4	136.4						132.8	127.9	131.9
1876	124.4	124.4						118.4	114.7	119.5
1877	108.1	108.1						108.8	105.9	107.5
1878	108.1	108.1						102.4	101.5	104.6
1879	97.2	97.2	105.3					96.0	97.1	104.0
1880	123.1	123.1	105.3	109.9	91.7	81.0	78.6	126.4	125.0	113.5
1881	130.8	130.8	105.3	107.7	91.7	71.4	83.3	118.4	117.6	109.1
1882	123.1	123.1	105.3	107.7	87.5	76.2	85.7	115.2	111.8	105.5
1883	119.8	119.8	105.3	103.3	83.3	76.2	88.1	110.4	105.9	101.5
1884	110.9	110.9	105.3	98.9	83.3	83.3	90.5	96.0	95.6	95.9
1885	102.0	102.0	105.3	101.1	83.3	85.7	90.5	88.0	88.2	95.5
1886	104.5	104.5	100.0	101.1	91.7	90.5	92.9	104.0	101.5	100.9
1887	100.0	100.0	100.0	98.9	104.2	95.2	95.2	99.2	102.9	100.8
1888	97.2	97.2	100.0	100.0	102.1	95.2	95.2	94.4	101.5	99.7
1889	100.0	100.0	100.0	102.2	106.3	95.2	97.6	99.2	102.9	102.1
1890	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1891	97.4	97.4	100.0	97.8	95.8	104.8	95.2	96.0	98.5	98.6

TABLE 12.—*Relative prices of cloths and clothing, compared with 1890*—Continued.

GROUP IV.—COTTON TEXTILES.

Year.	Calico, Cocheco prints.	Denims, Amoskeag.	Drillings, 30-inch, Pepperell.	Print cloths, 28-inch, 64 by 64, Metacomet.	Print cloths, 28-inch, 7 yards to the pound, standard.	Sheetings, brown, 4-4, Atlantic A.	Shirtings, bleached, 4-4, New York Mills.	Tickings, Amoskeag, A. C. A.	Cotton thread, six-cord, 200 yards, J. and P. Coats'.	Shirtings, bleached, 4-4, Lonsdale.
1860	146.2	123.4	125.3	153.6	157.9	120.3	142.7	141.7	.....	.....
1861	146.2	127.7	121.9	132.1	133.3	123.8	138.1	135.4	.....	.....
1862	192.3	153.2	183.0	164.3	252.6	197.9	156.5	172.9	122.0	.....
1863	307.7	319.1	387.0	428.6	400.0	428.6	299.2	377.1	219.6	354.4
1864	369.2	468.1	563.0	485.7	477.2	607.1	380.4	.....	244.0	423.0
1865	569.2	572.3	844.4	825.0	757.9	857.1	587.0	639.6	366.0	485.9
1866	415.4	461.7	457.4	553.6	547.4	471.0	457.4	656.3	280.6	457.3
1867	292.3	331.1	316.7	346.4	336.8	314.3	372.2	483.3	280.6	335.8
1868	207.7	212.8	211.1	185.7	182.5	214.3	260.5	314.6	244.0	182.9
1869	207.7	229.8	232.2	228.6	252.6	228.6	255.9	258.3	219.6	205.8
1870	215.4	227.7	232.2	217.9	228.1	228.6	209.4	286.7	219.6	205.8
1871	176.9	204.3	190.0	203.6	210.5	185.7	186.1	231.3	184.9	171.5
1872	184.6	191.5	204.1	217.9	214.0	192.9	193.4	227.1	184.9	205.8
1873	184.6	185.1	211.1	210.7	210.5	200.0	193.4	216.7	184.9	188.6
1874	176.9	174.5	170.4	164.3	171.9	171.4	176.8	204.2	164.5	165.5
1875	146.2	155.3	159.3	139.3	147.4	150.1	139.6	187.5	164.5	139.4
1876	130.8	151.1	140.7	121.4	117.6	135.8	130.3	164.6	156.0	122.6
1877	115.4	125.5	122.2	139.3	136.7	128.6	121.0	129.2	150.3	122.6
1878	107.7	127.7	118.5	110.7	99.9	117.9	107.1	125.0	132.9	102.9
1879	92.3	123.4	103.7	92.9	89.5	100.0	97.7	116.7	127.1	94.2
1880	115.4	123.4	129.6	142.9	136.8	128.6	121.0	125.0	127.1	120.1
1881	107.7	123.4	118.5	119.6	119.3	121.4	116.3	133.3	127.1	114.3
1882	107.7	129.8	118.5	107.1	112.3	125.0	121.0	137.5	127.1	120.1
1883	100.0	121.3	122.2	98.2	103.6	114.3	111.7	129.2	120.1	108.7
1884	96.2	108.5	103.7	98.2	96.6	103.6	97.7	108.3	120.1	96.5
1885	92.3	104.3	96.3	91.1	89.5	103.6	91.6	97.9	120.1	88.6
1886	92.3	100.0	92.6	92.9	87.7	96.4	95.3	93.8	120.1	91.5
1887	92.3	108.5	92.6	96.4	94.7	96.4	99.8	108.3	120.1	97.3
1888	92.3	106.4	100.0	107.1	101.8	103.6	99.8	106.3	120.1	102.9
1889	100.0	104.3	100.0	112.5	110.5	100.0	97.7	100.0	120.1	97.1
1890	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1891	92.3	100.0	96.3	85.7	84.2	100.0	102.4	100.0	96.3	97.3

TABLE 12.—*Relative prices of cloths and clothing, compared with 1890*—Continued.

GROUP IV.—COTTON TEXTILES—Continued.

Years.	Shirtings, bleached, 4-4, Hope.	Ginghams, Lancaster staple.	Sheetings, brown, 4-4, Lawrence LL.	Cotton thread, six-cord, 200 yards, Willimantic.	Hosiery: women's cotton stockings, bleached and unbleached, out feet, circular made, 28 gauge, weighing 24 ounces to the dozen.	Ginghams, Amoskeag.	Bags, 2-bushel.		Sheetings, bleached.	
							Amoskeag.	Stark A.	10-4, Pepperell.	4-4, Langdon G. B.
1860										
1861										
1862										
1863										
1864										
1865										
1866	493.7	370.4								
1867	300.3	340.7								
1868	178.5	237.0	206.8	211.6						
1869	206.9	251.9	227.7	211.6	278.8					
1870	166.9	222.2	223.3	189.4	249.4	256.0	239.7	218.9		
1871	166.9	222.2	174.0	167.1	190.7	220.0	173.0	183.8	175.9	
1872	200.1	207.4	202.0	155.9	187.1	216.0	181.0	182.4	175.9	198.6
1873	186.8	207.4	208.8	155.9	183.4	208.0	182.5	179.7	160.5	188.4
1874	166.9	185.2	165.4	155.9	168.7	188.0	184.1	170.9	160.5	194.2
1875	133.4	170.4	139.2	155.9	146.7	168.0	168.3	161.5	145.8	172.5
1876	116.7	170.4	139.2	150.2	124.7	168.0	128.6	138.5	139.2	142.0
1877	120.1	140.7	117.4	150.2	124.7	132.0	111.1	117.6	119.9	113.0
1878	105.6	133.3	113.2	150.2	110.0	136.0	114.3	127.0	104.2	118.8
1879	93.4	125.9	100.0	128.1	91.7	136.0	114.3	108.8	92.6	104.3
1880	126.8	148.1	126.2	128.1	113.7	136.0	114.3	110.1	120.8	108.7
1881	116.7	148.1	121.8	128.1	113.7	136.0	111.1	116.2	120.8	118.8
1882	117.3	148.1	121.8	128.1	113.7	156.0	115.9	121.6	114.6	129.0
1883	106.7	125.9	113.2	117.0	110.0	128.0	120.6	120.9	120.8	117.4
1884	93.1	118.5	104.4	117.0	110.0	112.0	114.3	110.8	104.2	108.7
1885	90.0	107.4	95.6	117.0	110.0	104.0	106.3	109.5	92.6	97.1
1886	93.4	107.4	87.0	117.0	100.0	104.0	92.1	106.8	90.3	91.3
1887	100.0	111.1	94.0	117.0	103.4	112.0	92.1	105.4	87.5	92.8
1888	106.7	114.8	100.0	117.0	103.4	108.0	95.2	106.8	100.0	101.4
1889	103.4	103.7	100.0	117.0	100.0	104.0	100.0	103.4	104.2	108.7
1890	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1891	100.0	103.7	96.2	95.7	103.4	104.0	100.0	104.7	92.6	101.4

TABLE 12.—*Relative prices of cloths and clothing, compared with 1890*—Continued.

GROUP IV.—COTTON TEXTILES—Concluded.

Years.	Sheetings, brown, 4-4, Pepperell R.	Shirtings, bleached, 4-4, Fruit of the Loom.	Cotton flannels.		Sheetings, bleached, 10-4, Pequot.	Underwear, cotton shirts and drawers, white, full fashioned, 24 gauge.	Drillings, Stark A.	Average.
			2 yards to the pound, Lawrence.	2½ yards to the pound, Lawrence.				
1860	.....	.....	.....	.....	.....	.....	.....	138.9
1861	.....	.....	.....	.....	.....	.....	.....	132.3
1862	.....	.....	.....	.....	.....	.....	.....	177.2
1863	.....	.....	.....	.....	.....	.....	.....	352.1
1864	.....	.....	.....	.....	.....	.....	.....	446.4
1865	.....	.....	.....	.....	.....	.....	.....	650.4
1866	.....	.....	.....	.....	.....	.....	.....	468.5
1867	.....	.....	.....	.....	.....	.....	.....	336.7
1868	.....	.....	.....	.....	.....	201.5	.....	216.4
1869	.....	.....	.....	.....	.....	201.5	236.9	231.4
1870	.....	.....	.....	.....	.....	182.3	241.2	222.0
1871	185.2	.....	.....	.....	.....	182.3	182.7	189.5
1872	185.2	182.9	.....	.....	.....	191.4	204.6	196.3
1873	200.0	182.9	.....	.....	.....	175.6	213.5	192.5
1874	155.6	165.7	.....	.....	162.7	175.6	176.9	172.7
1875	140.7	142.9	134.7	.....	159.5	141.4	161.5	152.7
1876	133.3	120.0	.....	.....	121.8	136.4	138.5	137.5
1877	118.5	114.3	.....	.....	117.0	131.3	123.1	126.7
1878	107.4	102.9	.....	.....	98.5	121.2	119.2	116.5
1879	96.3	97.1	107.6	.....	93.3	101.0	103.8	105.1
1880	125.9	125.7	.....	123.7	127.9	111.1	130.8	134.9
1881	114.8	120.0	121.6	116.8	117.0	111.1	123.1	128.6
1882	107.4	120.0	128.0	124.0	124.4	111.1	128.9	122.7
1883	114.8	108.6	134.7	123.2	124.4	111.1	115.4	116.4
1884	96.3	100.0	116.9	114.5	121.2	106.1	107.7	108.8
1885	96.3	93.3	107.6	99.2	98.5	96.0	100.0	98.5
1886	88.9	89.2	98.2	95.4	85.1	90.9	96.2	96.1
1887	92.6	97.1	100.6	99.2	93.3	88.4	100.0	98.7
1888	100.0	105.7	100.6	103.1	100.0	101.0	103.8	104.0
1889	103.7	100.0	105.2	105.2	100.0	100.0	103.8	103.9
1890	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1891	92.6	100.0	95.0	100.0	100.0	100.0	103.8	98.1

TABLE 12.—*Relative prices of cloths and clothing, compared with 1890*—Continued.

GROUP V.—LEATHER AND SHOE WEAR.

Year.	Boots and shoes.				Hides, dry, Buenos Ayres.	Leather, calfskins.					
	Men's brogans, leather.	Men's fine kip boots, ¾ double sole.	Men's split boots, kip top, 16-inch, ¾ double sole.	Women's solid grain shoes, leather, polish or polka.		Tanned and dressed, domestic, No. 1.	Tanned and dressed, domestic, No. 2.	Tanned and dressed, domestic, No. 3.	Tanned and dressed, 27 to 28 pounds to the dozen, French, J. Griffon & Co.	Tanned and dressed, 27 to 28 pounds to the dozen, French, Laven.	Tanned and dressed, 27 to 28 pounds to the dozen, German, C. Simon.
1860	.....	.....	.....	.....	172.0	.....	.....	.....	.....	.....	.....
1861	.....	.....	.....	.....	141.6	.....	.....	.....	.....	.....	.....
1862	.....	.....	.....	.....	174.6	.....	.....	.....	.....	.....	.....
1863	.....	.....	.....	.....	203.0	.....	.....	.....	.....	.....	.....
1864	.....	.....	.....	.....	236.0	.....	.....	.....	.....	.....	.....
1865	.....	.....	.....	264.7	201.1	.....	.....	.....	.....	.....	.....
1866	157.1	.....	.....	.....	194.7	.....	.....	.....	.....	.....	.....
1867	157.1	.....	.....	205.9	198.2	.....	.....	.....	.....	.....	.....
1868	142.9	.....	.....	191.2	205.0	.....	.....	.....	.....	.....	.....
1869	142.9	.....	.....	.....	207.2	171.4	174.0	177.8	.....	.....	.....
1870	142.9	.....	.....	161.8	192.6	165.7	170.0	183.3	.....	.....	.....
1871	135.2	.....	.....	.....	198.0	171.4	165.0	.....	.....	.....	.....
1872	135.2	181.0	.....	138.2	211.0	142.9	140.0	.....	.....	.....	.....
1873	133.3	.....	.....	.....	211.3	142.9	.....	144.4	.....	.....	.....
1874	133.3	.....	.....	.....	204.7	146.7	140.0	.....	.....	.....	.....
1875	133.3	.....	.....	132.4	179.1	123.8	126.0	133.3	.....	158.3	136.4
1876	128.6	.....	.....	123.5	154.6	138.1	140.0	.....	.....	154.2	127.3
1877	128.6	147.6	141.2	.....	166.3	161.9	160.0	155.6	.....	141.7	122.7
1878	104.8	128.1	123.5	117.6	146.5	148.6	146.0	.....	108.7	137.5	122.7
1879	121.4	121.4	123.5	.....	148.3	123.8	123.0	133.3	104.3	133.3	115.5
1880	123.8	123.8	126.5	111.8	170.1	114.3	115.0	122.2	104.3	129.2	118.2
1881	123.8	142.9	126.5	.....	167.6	128.6	130.0	.....	108.7	129.2	122.7
1882	121.4	140.5	123.5	108.8	172.8	161.9	160.0	.....	108.7	125.0	122.7
1883	119.0	140.5	123.5	.....	166.2	.....	170.0	.....	108.7	122.9	118.2
1884	114.3	128.6	120.6	106.5	168.4	152.4	150.0	.....	104.3	122.9	112.7
1885	114.3	123.8	117.6	102.9	161.5	157.1	160.0	160.0	104.3	120.8	112.7
1886	111.9	119.0	117.6	.....	148.3	123.8	125.0	133.3	104.3	120.8	112.7
1887	109.5	119.0	117.6	97.1	135.1	152.4	150.0	155.6	104.3	116.7	112.7
1888	107.1	111.9	108.8	.....	120.5	.....	140.0	116.7	100.0	112.5	104.5
1889	102.4	109.5	108.8	94.1	114.0	133.3	135.0	116.7	100.0	104.2	104.5
1890	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1891	100.0	100.0	100.0	94.1	.....	123.8	125.0	133.3	100.0	95.8	104.5

TABLE 12.—*Relative prices of clothe and clothing, compared with 1890*—Continued.

GROUP V.—LEATHER AND SHOE WEAR—Concluded.

Year.	Leather, calfskins.							Leather.		Average.
	Tanned and dressed, 27 to 28 pounds to the dozen, Swiss, J. J. Mercier.	Tanned and dressed, 27 to 28 pounds to the dozen, Swiss, H. Suser.	Tanned and dressed, 32 pounds to the dozen, French, J. Griffon & Co.	Tanned and dressed, 32 pounds to the dozen, French, Laven.	Tanned and dressed, 32 pounds to the dozen, German, C. Simon.	Tanned and dressed, 32 pounds to the dozen, Swiss, J. J. Mercier.	Tanned and dressed, 32 pounds to the dozen, Swiss, H. Suser.	Harness.	Sole, first quality, medium weight, Buenos Ayres.	
1860	.....	.....	.....	.....	.....	.....	.....	116.7	111.4	133.4
1861	.....	.....	.....	.....	.....	.....	.....	110.0	100.4	117.3
1862	.....	.....	.....	.....	.....	.....	.....	110.0	121.1	135.2
1863	.....	.....	.....	.....	.....	.....	.....	126.7	156.4	162.0
1864	.....	.....	.....	.....	.....	.....	.....	166.7	202.4	201.7
1865	.....	.....	.....	.....	.....	.....	.....	200.0	189.3	213.8
1866	.....	.....	.....	.....	.....	.....	.....	173.3	180.7	176.5
1867	.....	.....	.....	.....	.....	.....	.....	170.0	157.9	177.8
1868	.....	.....	.....	.....	.....	.....	.....	160.0	143.8	168.6
1869	.....	.....	.....	.....	.....	.....	.....	156.7	156.8	169.5
1870	.....	.....	.....	.....	.....	.....	.....	153.3	153.5	165.4
1871	.....	.....	.....	.....	.....	.....	.....	146.7	148.3	160.8
1872	.....	.....	.....	.....	.....	.....	.....	136.7	146.7	154.0
1873	.....	.....	.....	.....	.....	.....	.....	146.7	150.8	154.9
1874	.....	.....	.....	.....	.....	.....	.....	140.0	151.1	152.7
1875	110.0	141.8	.....	159.6	136.4	148.1	141.8	123.3	145.2	141.2
1876	133.3	123.7	.....	153.2	127.3	140.7	134.0	120.0	131.2	135.3
1877	130.0	114.2	.....	140.4	122.7	133.3	118.6	116.7	131.3	137.2
1878	126.7	103.8	108.7	136.2	122.7	129.6	110.3	116.7	109.7	124.4
1879	120.0	105.7	104.3	131.9	115.5	125.9	105.2	106.7	117.7	120.0
1880	120.0	105.7	104.3	131.9	118.2	125.9	108.2	136.7	134.1	122.2
1881	120.0	109.0	108.7	131.9	122.7	125.9	108.2	133.3	129.7	126.1
1882	120.0	106.7	108.7	125.5	122.7	124.1	108.2	126.7	130.5	127.3
1883	118.3	104.1	108.7	123.4	118.2	124.1	106.2	120.0	129.2	134.6
1884	118.3	98.7	104.3	123.4	112.7	122.2	97.9	120.0	133.4	121.7
1885	116.7	102.1	104.3	121.3	112.7	122.2	103.1	113.3	124.1	122.7
1886	116.7	106.2	104.3	121.3	112.7	122.2	106.2	113.3	120.5	117.9
1887	113.3	106.2	104.3	114.9	112.7	120.4	106.2	113.3	111.6	118.6
1888	110.0	103.1	100.0	112.8	104.5	118.5	103.1	110.0	106.1	110.6
1889	106.7	101.0	100.0	106.4	104.5	107.4	101.0	110.0	99.8	108.0
1890	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1891	96.7	.....	100.0	97.9	104.5	96.3	.....	100.0	.....	104.5

TABLE 12.—*Relative prices of cloths and clothing, compared with 1890*—Continued.

GROUP VI.—DRESS GOODS.

Year.	Women's dress goods.													Average.
	Cotton warp alpaca, 22-inch, Hamilton.	Cotton warp cashmere, 22-inch, Hamilton.	Cotton warp cashmere, 27-inch, Hamilton.	Cotton warp cashmere, 54-inch.	Cotton warp cashmere, 9 twill, 4-4, Atlantic Mills F.	All wool cashmere, 10-11 twill, 38-inch, imported.	All wool ladies' cloth, 3-4, Assabet Rob Roy.	All wool ladies' cloth, 25-inch, Assabet Opera.	All wool ladies' cloth, 6-4, Assabet.	Cashmere, 3-4, Pacific.	Brocade, 3-4, Pacific.	Poplin luster, 3-4, Pacific.	
1860	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1861	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1862	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1863	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1864	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1865	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1866	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1867	.....	.....	.....	.....	.....	.....	181.1	.....	.....	.....	.....	.....	.....	181.1
1868	.....	.....	.....	.....	.....	.....	143.2	.....	.....	.....	.....	.....	.....	143.2
1869	.....	.....	.....	.....	.....	.....	145.3	.....	.....	.....	231.6	240.0		205.6
1870	.....	.....	.....	.....	.....	.....	136.8	.....	.....	.....	247.4	240.0		208.1
1871	.....	.....	.....	.....	.....	.....	147.4	.....	.....	.....	247.4	240.0		211.6
1872	.....	.....	.....	.....	.....	.....	185.3	174.8	.....	.....	.....	.....	.....	180.1
1873	.....	.....	.....	112.0	.....	.....	145.3	174.8	.....	.....	221.1	266.7		184.0
1874	.....	.....	.....	112.0	.....	.....	143.2	135.9	.....	.....	.....	.....		130.4
1875	.....	.....	.....	112.0	.....	.....	140.0	144.7	.....	.....	221.1	240.0		171.6
1876	.....	.....	.....	112.0	.....	.....	126.3	129.1	.....	.....	.....	.....		122.5
1877	.....	.....	.....	112.0	.....	.....	124.2	119.4	.....	.....	236.8	200.0		158.5
1878	.....	.....	.....	112.0	.....	.....	113.7	.....	154.3	.....	219.5	166.7		151.4
1879	.....	.....	.....	108.0	.....	.....	111.6	113.6	138.9	147.0	189.5	160.0		138.4
1880	144.8	133.3	145.0	100.0	139.2	140.8	144.2	110.7	162.4	158.8	189.5	160.0		144.1
1881	137.9	133.3	.....	100.0	121.6	135.2	132.6	129.1	154.3	147.0	173.7	153.3		138.0
1882	119.0	116.7	.....	100.0	121.6	135.2	132.6	129.1	154.3	129.4	121.1	133.3		126.6
1883	103.4	115.2	115.0	100.0	123.0	135.2	132.6	122.3	146.6	.....	.....	.....		121.5
1884	113.8	121.2	.....	96.0	121.6	135.2	113.7	116.5	138.0	117.6	105.3	116.7		117.8
1885	110.2	109.1	107.5	100.0	101.4	125.4	108.4	104.9	113.7	100.0	89.5	113.3		107.0
1886	96.6	97.0	100.0	100.0	102.7	102.8	108.4	104.9	108.1	.....	.....	.....		102.3
1887	113.8	115.2	115.0	100.0	100.0	102.8	108.4	104.9	108.1	111.8	100.0	110.0		107.5
1888	117.2	115.2	110.0	96.0	100.0	100.0	100.0	104.9	105.6	100.0	94.7	106.7		104.2
1889	93.1	93.9	95.0	100.0	100.0	93.0	100.0	104.9	103.8	82.4	94.7	93.3		96.2
1890	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0
1891	103.4	103.0	100.0	100.0	100.8	100.0	100.0	100.0	105.6	100.0	100.0	100.0		101.0

TABLE 12.—*Relative prices of cloths and clothing, compared with 1890*—Continued.

GROUP VII.—SILKS.

Year.	Silks: black, Cachemire, Alexandra.							Average.
	No. 6, Alexandre Giraud & Co.	No. 7, Alexandre Giraud & Co.	No. 8, Alexandre Giraud & Co.	No. 9, Alexandre Giraud & Co.	No. 10, Alexandre Giraud & Co.	No. 11, Alexandre Giraud & Co.	No. 12, Alexandre Giraud & Co.	
1860	.....	.....	.....	.....	.....	.....	.....	.....
1861	.....	.....	.....	.....	.....	.....	.....	.....
1862	.....	.....	.....	.....	.....	.....	.....	.....
1863	.....	.....	.....	.....	.....	.....	.....	.....
1864	.....	.....	.....	.....	.....	.....	.....	.....
1865	.....	.....	.....	.....	.....	.....	.....	.....
1866	.....	.....	.....	.....	.....	.....	.....	.....
1867	.....	.....	.....	.....	.....	.....	.....	.....
1868	.....	.....	.....	.....	.....	.....	.....	.....
1869	.....	.....	.....	.....	.....	.....	.....	.....
1870	.....	.....	.....	.....	.....	.....	.....	.....
1871	190.9	178.5	200.5	186.0	193.7	.....	.....	189.6
1872	190.9	183.3	203.8	185.6	189.9	187.0	180.6	188.7
1873	180.5	172.6	191.8	177.0	182.3	178.2	.....	180.4
1874	179.9	172.0	188.0	172.1	178.5	177.4	.....	177.9
1875	163.4	155.4	172.1	155.4	158.6	158.2	159.1	160.3
1876	172.0	164.0	180.3	161.7	163.7	.....	.....	168.3
1877	144.5	137.1	151.9	136.5	131.2	.....	.....	140.2
1878	140.9	133.9	144.3	130.2	131.2	128.7	125.8	133.6
1879	150.0	144.1	159.6	147.7	142.6	140.6	141.9	146.6
1880	132.9	127.4	141.5	124.8	127.8	125.3	128.0	129.7
1881	122.6	119.4	129.5	117.6	119.8	118.4	121.1	121.2
1882	117.7	114.5	128.4	117.6	119.8	119.9	121.1	119.9
1883	117.7	112.9	124.6	113.1	115.2	113.0	113.6	115.7
1884	107.3	109.1	118.6	108.6	111.0	107.7	109.3	110.2
1885	106.1	104.3	119.7	105.4	105.5	105.7	106.8	107.6
1886	.....	.....	119.1	109.9	.....	110.7	109.0	112.2
1887	.....	114.0	127.9	114.4	118.1	.....	113.6	117.6
1888	.....	.....	122.4	109.9	110.5	105.7	105.4	110.8
1889	.....	110.2	119.7	108.1	109.7	108.0	110.0	111.0
1890	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1891	100.0	91.4	100.0	90.5	89.5	92.3	96.8	94.4

GROUP VIII.—LINEN GOODS.

Year.	Linen goods, thread.					Year.	Linen goods, thread.				
	Shoe, 10-s, Barbour.	Shoe, 10-s, Marshall.	3-cord, 200 yards, Barbour.	3-cord, 200 yards, Marshall.	Average.		Shoe, 10-s, Barbour.	Shoe, 10-s, Marshall.	3-cord, 200 yards, Barbour.	3-cord, 200 yards, Marshall.	Average.
1860	.....	.....	.....	.....	.....	1876	90.0	89.5	120.0	160.6	115.0
1861	.....	.....	.....	.....	.....	1877	90.0	89.5	120.0	150.7	112.6
1862	.....	.....	.....	.....	.....	1878	90.0	88.4	120.0	126.8	106.3
1863	.....	.....	.....	.....	.....	1879	80.0	88.4	120.0	119.7	102.0
1864	.....	.....	.....	.....	.....	1880	90.0	88.4	120.0	112.7	102.8
1865	.....	.....	.....	.....	.....	1881	90.0	88.4	90.0	107.0	93.9
1866	.....	.....	.....	.....	.....	1882	90.0	88.4	96.7	107.0	95.5
1867	.....	.....	.....	.....	.....	1883	90.0	86.0	96.7	107.0	94.9
1868	.....	.....	.....	.....	.....	1884	90.0	83.7	96.7	107.0	94.4
1869	.....	.....	.....	.....	.....	1885	90.0	88.4	96.7	114.1	97.3
1870	.....	81.4	.....	152.1	116.8	1886	90.0	88.4	96.7	104.2	94.8
1871	84.4	86.0	122.2	152.1	111.2	1887	90.0	88.4	96.7	104.2	94.8
1872	84.4	86.0	122.2	152.1	111.2	1888	90.0	88.4	90.0	104.2	93.2
1873	84.4	86.0	122.2	140.8	108.4	1889	90.0	100.0	90.0	116.9	99.2
1874	84.4	86.0	122.2	140.8	108.4	1890	100.0	100.0	100.0	100.0	100.0
1875	84.4	86.0	104.4	132.4	101.8	1891	100.0	100.0	100.0	100.0	100.0

TABLE 12.—*Relative prices of cloths and clothing, compared with 1890*—Concluded.

GROUP IX.—UNDERWEAR.

Year.	Hosiery: half hose, heavy merino, full-fashioned.	Underwear.			Average.	Year.	Hosiery: half hose, heavy merino, full-fashioned.	Underwear.			Average.
		Men's shirts and drawers, 14–16 gauge, scarlet, all wool, 10 pounds to the dozen, 40-inch shirts, plain finish.	Shirts and drawers, white, all wool, full-fashioned, 18 gauge.	Merino shirts and drawers, white, full-fashioned, 52 per cent. wool, 48 per cent. cotton, 24 gauge.				Men's shirts and drawers, 14–16 gauge, scarlet, all wool, 10 pounds to the dozen, 40-inch shirts, plain finish.	Shirts and drawers, white, all wool, full-fashioned, 18 gauge.	Merino shirts and drawers, white, full-fashioned, 52 per cent. wool, 48 per cent. cotton, 24 gauge.	
1860	.....	.....	.....	.....	.....	1876	189.5	154.8	153.5	143.7	160.4
1861	.....	.....	.....	.....	.....	1877	178.9	141.9	137.4	132.1	147.6
1862	.....	.....	.....	.....	.....	1878	151.6	135.5	137.4	120.1	136.2
1863	.....	.....	.....	.....	.....	1879	147.4	129.0	109.1	108.1	123.4
1864	.....	.....	.....	.....	.....	1880	157.9	129.0	122.8	123.1	133.2
1865	.....	.....	.....	.....	.....	1881	115.8	129.0	121.2	114.1	120.0
1866	.....	.....	.....	.....	.....	1882	115.8	122.6	113.1	120.1	117.9
1867	.....	.....	.....	.....	.....	1883	115.8	122.6	113.1	120.1	117.9
1868	.....	.....	138.2	182.6	160.4	1884	115.8	116.1	101.0	120.1	113.3
1869	.....	.....	138.2	182.6	160.4	1885	105.3	109.7	97.0	111.1	105.8
1870	.....	.....	139.2	171.2	154.7	1886	110.5	109.7	101.0	111.1	108.1
1871	168.4	258.1	145.5	168.0	185.0	1887	110.5	103.2	97.0	102.1	103.2
1872	189.5	232.3	156.0	171.3	162.0	1888	110.5	103.2	101.0	105.1	105.0
1873	178.9	219.4	153.1	154.5	176.5	1889	100.0	103.2	100.0	100.0	100.8
1874	189.5	193.5	153.1	154.5	172.7	1890	100.0	100.0	100.0	100.0	100.0
1875	189.5	174.2	137.4	154.5	163.9	1891	100.0	96.8	103.6	105.4	101.5

SUMMARY.

Year.	Group I.—Suitings.	Group II.—Carpets.	Group III.—Blankets and flannels.	Group IV.—Cotton textiles.	Group V.—Leather and shoe wear.	Group VI.—Women's dress goods.	Group VII.—Silks.	Group VIII.—Linen goods.	Group IX.—Underwear.	General average of all articles.
1860	122.7	137.1	123.2	138.9	133.4	.....	.....	.....	.....	131.8
1861	122.7	123.4	113.5	132.3	117.3	.....	.....	.....	.....	124.4
1862	136.6	131.5	131.3	177.2	135.2	.....	.....	.....	.....	151.8
1863	179.4	186.0	139.7	352.1	162.0	.....	.....	.....	.....	250.3
1864	205.5	219.6	141.3	446.4	201.7	.....	.....	.....	.....	296.1
1865	223.8	237.0	145.3	650.4	213.8	.....	.....	.....	.....	410.3
1866	204.1	289.0	130.8	468.5	176.5	.....	.....	.....	.....	327.5
1867	170.7	287.6	120.4	336.7	177.8	181.1	.....	.....	.....	251.1
1868	166.5	236.9	112.1	216.4	168.6	143.2	.....	.....	160.4	189.7
1869	144.9	201.5	116.1	231.4	169.5	205.6	.....	.....	160.4	195.5
1870	141.8	226.3	122.0	222.0	165.4	208.1	.....	116.8	154.7	186.0
1871	149.0	194.8	127.1	189.5	160.8	211.6	189.9	111.2	185.0	172.7
1872	157.7	211.5	148.4	195.3	154.0	180.1	188.7	111.2	162.0	174.2
1873	153.1	191.9	148.8	192.5	154.9	184.0	180.4	108.4	176.5	171.6
1874	145.1	187.9	132.7	171.0	152.6	180.4	177.9	108.4	172.7	157.8
1875	137.1	180.5	131.9	151.5	141.2	171.6	160.3	101.8	163.9	147.1
1876	122.8	162.7	119.5	136.8	135.3	122.5	168.3	115.0	160.4	135.5
1877	115.6	161.8	107.5	125.4	137.2	158.5	140.2	112.6	147.6	128.8
1878	109.5	136.7	104.6	116.6	124.4	151.4	133.6	106.3	136.2	120.9
1879	107.3	125.5	104.0	105.6	120.0	138.4	146.6	102.0	123.4	114.9
1880	117.7	138.0	113.5	124.7	122.2	144.1	129.7	102.8	133.2	134.1
1881	113.5	134.2	109.1	120.6	126.1	138.0	121.2	93.9	120.0	120.0
1882	113.9	133.8	105.5	122.3	127.3	136.6	119.9	95.5	117.9	119.0
1883	109.5	132.2	101.5	116.1	124.8	121.5	115.7	94.9	117.9	114.6
1884	108.0	120.9	95.9	106.9	121.7	117.8	110.2	94.4	113.3	109.5
1885	103.8	109.0	95.5	100.0	122.7	107.0	107.6	97.3	105.8	105.5
1886	108.1	110.4	100.9	96.4	117.9	102.3	112.2	94.8	108.1	104.6
1887	104.2	108.5	100.8	99.9	118.6	107.5	117.6	94.8	103.2	105.9
1888	101.0	103.2	99.7	104.0	110.6	104.2	110.8	93.2	105.0	103.8
1889	100.4	100.1	102.1	103.8	108.0	96.2	111.0	99.2	100.8	102.9
1890	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1891	99.4	107.5	98.6	98.2	104.5	101.0	94.4	100.0	101.5	99.9

In this table the articles are not arranged in the order in which they are found in the main tables of the report, but have been grouped so as to facilitate their use in the comparisons which we have in view. The averages for the different groups are based upon a continually growing number of quotations. As the year 1890 is approached, they are much more numerous than in the period immediately following 1860. The formation of averages from a varying number of quotations is admissible in this case, inasmuch as articles of a similar nature have been classed together. In the form in which they now stand these figures cannot be applied to the measurement of the relative price in 1891, in conjunction with the calculation already made for food, because of the different base line. In order, therefore, to make them comparable with the food figures, we have reversed the series by taking the average for 1860 as the basis and expressing the subsequent terms of the series as percentages of this amount. We may illustrate this by the group, suitings. In that group the average for 1860 on the basis of 1890 is 122.7. If this be termed 100, then the price in 1890 becomes 81.5. It may be objected to this method that, so far as the extremes of the table are concerned—that is, the years 1860 and 1890—they are in reality based on exactly the same figures as would be a calculation based upon the four articles of suitings whose price goes back to 1860.

Some greater degree of accuracy may, it is true, be obtained in the intermediate figures, but the extremes might as well have been taken from the few articles whose price covers the entire period in question. There can be no contesting the mathematical accuracy of this statement. There can be no doubt that the extremes are the same by both methods. It is obvious that if there has been any different movement of prices among the articles whose price is quoted for a shorter period than in the four articles covering the entire period that it is not expressed in any way by the method we have adopted. On the other hand, if it be true that all articles of an allied nature have approximately the same tendencies, then it is presumably the fact that the decline or advance in price as determined by the four articles should be typical of the whole group. This we believe to be the case. But the matter is susceptible of proof. If it be assumed that the different articles have approximately the same tendencies in price we may form a combination in the following manner, which I will illustrate by the group suitings. Let us start with 1860, with the four articles whose prices are given at that date and ascertain their relative price in each subsequent year. In the year 1862 the relative price of the four quotations taken together is 108.9. A new quotation starts in this year. Its initial price may be placed at 108.9 and the subsequent price expressed as proportions of this amount. So on with every succeeding quotation. Each begins with a sum equal to the average relative price of those already begun. This is made clear in the annexed table, which gives such calculations for the group suitings.

TABLE 13.—*Relative prices of suitings, 1860 basis amended.*

Year.	Cassimeres, all wool.		Cassimeres, Sawyer, made of X and XX wool.						Suitings,						Cassimeres.				Checks, black and white, all wool, 3-4, 7-ounce, Harris.	Overcoatings.		Average.
	3-4, 7-ounce, Harris double and twist.	3-4, 12-ounce, Harris double and twist.	28-inch, 8¼-ounce, double and twist.	28-inch, 8¼-ounce, double and twist.	28-inch, 11¼-ounce, double and twist.	28-inch, 11¼-ounce.	28-inch, 11¼-ounce.	28-inch, 11¼-ounce.	All wool, indigo blue, 54-inch, 14-ounce, Middlesex standard.	Crêpe diagonal, 6-4, 18 to 19-ounce, Riverside.	Crêpe diagonal, 6-4, 23 to 24-ounce, Riverside.	Flannel, all wool, indigo blue, 6-4, Asabet.	Worsted, Birdseye, 6-4, 18 to 19-ounce, Riverside.	Worsted, Birdseye, 6-4, 23 to 24-ounce, Riverside.	All wool, fancy, heavy weight.	All wool, fancy, light weight.	All wool, 3-4, 12-ounce, Harris silk mixed.	All wool, fancy, 3-4, heavy weight.		Elysian, all wool, 6-4, 32-ounce, Harris.	Satinet, all wool, 6-4, 32-ounce, Harris.	
1860	100.0	100.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	100.0	.....	100.0	.....	.....	100.0
1861	100.0	100.0	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	100.0	.....	100.0	.....	.....	100.0
1862	111.1	109.1	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	107.1	108.9	108.3	.....	.....	108.9
1863	168.9	143.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	127.2	.....	145.8	.....	.....	146.5
1864	168.9	161.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	141.4	198.4	145.8	.....	.....	163.3
1865	168.9	197.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	183.8	172.4	166.7	.....	.....	177.9
1866	168.9	179.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	162.6	139.6	166.7	.....	.....	163.5
1867	126.7	161.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	141.4	124.7	128.6	.....	.....	136.7
1868	116.1	161.9	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	141.4	119.1	128.6	.....	.....	133.4
1869	105.6	125.9	121.8	.....	.....	.....	.....	.....	121.8	.....	.....	.....	.....	.....	.....	.....	127.2	.....	128.6	.....	.....	121.8
1870	105.6	125.9	111.0	.....	120.0	.....	.....	.....	121.8	.....	.....	.....	.....	.....	.....	.....	127.2	.....	128.6	.....	.....	120.0
1871	116.1	143.9	111.0	123.7	111.9	.....	.....	.....	121.8	.....	.....	.....	.....	.....	.....	.....	127.2	118.9	138.5	.....	.....	123.7
1872	116.1	161.9	121.8	132.6	128.1	130.8	.....	.....	121.8	.....	.....	.....	.....	.....	.....	.....	141.4	115.4	138.5	.....	.....	130.8
1873	116.1	143.9	121.8	126.1	130.2	121.6	125.0	.....	121.8	.....	.....	.....	.....	.....	.....	.....	113.1	116.4	138.5	.....	.....	125.0
1874	109.8	143.9	111.0	114.8	109.8	112.1	125.0	.....	103.2	.....	.....	.....	.....	.....	117.6	117.6	127.2	.....	118.8	.....	.....	117.6
1875	105.6	125.9	106.7	114.8	111.9	112.1	93.8	111.7	103.2	.....	.....	111.7	.....	.....	115.2	111.7	120.2	.....	118.8	.....	.....	111.7
1876	84.4	108.0	111.0	99.7	111.9	99.4	93.8	93.1	103.2	.....	.....	111.7	.....	.....	103.7	97.0	113.1	.....	89.1	101.4	101.4	101.4
1877	84.4	108.0	98.7	98.3	98.7	92.2	73.5	87.6	103.2	.....	.....	111.7	.....	.....	97.9	95.5	91.9	.....	89.1	101.4	101.4	95.8
1878	84.4	99.0	92.1	87.5	91.1	85.1	69.5	91.9	103.2	.....	.....	111.7	.....	.....	82.9	88.2	77.8	.....	89.1	101.4	101.4	91.0
1879	.....	.....	87.8	87.5	91.1	85.1	69.5	82.8	103.2	89.2	89.2	111.7	.....	89.2	80.6	90.5	.....	.....	.....	90.1	90.1	89.2
1880	.....	.....	92.1	91.7	98.7	92.2	77.1	91.9	103.2	98.1	105.4	117.6	98.9	105.4	115.2	96.7	.....	.....	.....	.....	.....	98.9
1881	.....	.....	96.3	96.0	98.7	92.2	77.1	91.9	103.2	89.2	89.2	111.7	98.9	89.2	100.9	90.1	.....	89.6	.....	.....	.....	94.3
1882	.....	.....	96.3	96.0	98.7	92.2	77.1	91.9	103.2	89.2	89.2	111.7	98.9	89.2	100.9	90.1	.....	94.1	.....	.....	.....	94.6
1883	.....	89.0	96.3	96.0	98.7	92.2	73.5	87.6	97.4	89.2	89.2	108.6	98.9	89.2	89.7	85.9	.....	.....	.....	.....	.....	92.1
1884	94.0	89.0	91.6	91.3	95.3	89.0	71.1	84.8	97.4	84.7	84.7	108.6	93.9	84.7	80.7	78.6	90.9	75.5	117.5	.....	.....	89.6
1885	83.6	89.0	91.6	87.5	88.9	81.1	67.8	80.8	97.4	84.7	84.7	99.3	93.9	84.7	72.9	74.4	83.9	74.7	97.9	92.9	92.9	85.9
1886	83.6	89.0	87.8	87.5	91.1	85.1	71.1	84.8	97.4	89.2	84.7	105.5	98.9	89.2	78.5	78.6	90.9	79.1	88.1	92.9	92.9	87.9
1887	82.7	89.0	86.9	86.5	90.2	84.3	70.5	84.0	97.4	84.7	84.7	105.5	98.9	84.7	80.7	78.6	90.0	73.1	87.2	92.9	84.5	86.5
1888	82.7	89.0	82.6	82.3	88.1	82.3	68.8	82.0	97.4	84.7	77.0	100.4	93.9	80.9	78.5	75.8	83.0	.....	87.2	86.5	78.6	84.1
1889	82.7	89.0	82.6	82.3	88.1	82.3	68.8	82.0	97.4	80.3	80.9	100.3	93.9	80.9	76.4	76.6	76.1	76.4	87.2	86.5	78.6	83.3
1890	78.5	89.0	82.6	82.3	88.1	82.3	68.8	82.0	97.4	84.7	80.9	102.4	93.9	80.9	76.4	76.6	73.4	73.4	87.2	86.5	78.6	83.1
1891	78.5	89.0	82.6	82.3	88.1	82.3	68.8	82.0	97.4	84.7	80.9	102.4	93.9	80.9	76.4	76.6	69.2	.....	82.3	86.5	78.6	83.2

TABLE 12.—*Relative prices of cloths and clothing, compared with 1890*—Continued.

GROUP IV.—COTTON TEXTILES—Concluded.

Years.	Sheetings, brown, 4-4, Pepperell R.	Shirtings, bleached, 4-4, Fruit of the Loom.	Cotton flannels.		Sheetings, bleached, 10-4, Pequot.	Underwear, cotton shirts and drawers, white, full fashioned, 24 gauge.	Drillings, Stark A.	Average.
			2 yards to the pound, Lawrence.	3¼ yards to the pound, Lawrence.				
1860	.....	.....	.....	.....	.....	.....	.....	138.9
1861	.....	.....	.....	.....	.....	.....	.....	132.3
1862	.....	.....	.....	.....	.....	.....	.....	177.2
1863	.....	.....	.....	.....	.....	.....	.....	352.1
1864	.....	.....	.....	.....	.....	.....	.....	446.4
1865	.....	.....	.....	.....	.....	.....	.....	650.4
1866	.....	.....	.....	.....	.....	.....	.....	468.5
1867	.....	.....	.....	.....	.....	.....	.....	336.7
1868	.....	.....	.....	.....	.....	201.5	.....	216.4
1869	.....	.....	.....	.....	.....	201.5	236.9	231.4
1870	.....	.....	.....	.....	.....	182.3	241.2	222.0
1871	185.2	.....	.....	.....	.....	182.3	182.7	189.5
1872	185.2	182.9	.....	.....	.....	191.4	204.6	195.3
1873	200.0	182.9	.....	.....	.....	175.6	213.5	192.5
1874	155.6	165.7	.....	.....	162.7	175.6	176.9	172.7
1875	140.7	142.9	134.7	.....	159.5	141.4	161.5	152.7
1876	133.3	120.0	.....	.....	121.8	136.4	138.5	137.5
1877	118.5	114.3	.....	.....	117.0	131.3	123.1	126.7
1878	107.4	102.9	.....	.....	98.5	121.2	119.2	116.5
1879	96.3	97.1	107.6	.....	93.3	101.0	103.8	105.1
1880	125.9	125.7	.....	123.7	127.9	111.1	130.8	124.9
1881	114.8	120.0	121.6	116.8	117.0	111.1	123.1	120.6
1882	107.4	120.0	128.0	124.0	124.4	111.1	126.9	122.7
1883	114.8	108.6	134.7	123.2	124.4	111.1	115.4	116.4
1884	96.3	100.0	116.9	114.5	121.2	106.1	107.7	106.8
1885	96.3	93.3	107.6	99.2	98.5	96.0	100.0	98.8
1886	88.9	89.2	98.2	95.4	85.1	90.9	96.2	96.1
1887	92.6	97.1	100.6	99.2	93.3	88.4	100.0	99.7
1888	100.0	105.7	100.6	103.1	100.0	101.0	103.8	104.0
1889	103.7	100.0	105.2	105.2	100.0	100.0	103.8	103.9
1890	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1891	92.6	100.0	95.0	100.0	100.0	100.0	103.8	98.1

We are now concerned with the application of the groups to the figures for the consumption of clothing. The grouping has been made in the following way: For coats, etc., we have taken the group, suitings; for boots and shoes, the group, leather, etc,; for the remaining groups, exclusive of dresses, we have made a combination of four groups on the basis of 1890, viz., blankets and flannels, cotton textiles, linen goods, and underwear, and having found the average of the four have reversed the same by dividing the relative price in 1860 into the subsequent prices. The group, dresses, presented some perplexities. It was evident from an examination of the relative prices based on 1890 that the prices of woollen dress goods, while following in a measure the prices of suitings, had fallen since 1867, when the quotations first began, in a greater degree than suitings had done. It might very properly, therefore, be assumed that the prices in 1860 were relatively higher for this class of goods than for suitings. Unfortunately there were no prices for the year 1860, and if this important group of articles was to be utilized at all resort must be had to some assumption as to the price at that period. It would have been unfortunate to have omitted this item altogether. We ascertained, therefore, the relation of the price of woollen dress goods to the price of suitings for the first ten years during which quotations for both were available. Having found this general relation we constructed supposititious prices for the period 1860 to 1867 by taking this proportion of the prices of suitings. In this manner we arrived at a figure which, though not absolutely accurate, is still based upon a probable hypothesis which enabled us to ascertain the approximate relative price of woollen dress goods in subsequent years.

The series thus obtained were united with the series for cotton dress goods which were extracted for this purpose from the group of cotton textiles, and the average of the two was used as the relative price for the group, dresses, etc., in the calculation of the relative price of clothing as measured by consumption. We are perfectly aware that the methods which have been followed to secure proper relative prices for the different groups of clothing are not ideally perfect, but we consider them the best that could be had under the circumstances. It should be remembered also that these circumstances are not of our own making. Fabrics of all kinds change so frequently that the committee must consider itself fortunate in obtaining as many as twenty-eight articles whose price covers the period from 1860 to the present time. In the nature of things this was the most difficult part of the investigation, and the same degree of accuracy could not have been expected here as elsewhere. But with the large number of quotations for a somewhat less period, and with the methods which have been followed we believe that the results obtained are adequate to the conditions of the problem, and any one who is familiar with previous attempts to ascertain the course of prices by the combination of a considerable number of articles must recognize that the present comparison, imperfect as it may be, is far in advance of any previous effort. In the table which follows we give the application of the relative prices of clothing in 1891 to the consumption as previously ascertained. It will be observed that there has been a decline in price measured by this method since 1860 of nearly 25 per cent.

TABLE 12.—*Relative prices of cloths and clothing, compared with 1890*—Continued.

GROUP V.—LEATHER AND SHOE WEAR—Concluded.

Year.	Leather, calfskins.							Leather.		Average.
	Tanned and dressed, 27 to 28 pounds to the dozen, Swiss, J. J. Mercier.	Tanned and dressed, 27 to 28 pounds to the dozen, Swiss, H. Suser.	Tanned and dressed, 32 pounds to the dozen, French, J. Griffon & Co.	Tanned and dressed, 32 pounds to the dozen, French, Laven.	Tanned and dressed, 32 pounds to the dozen, German, C. Simon.	Tanned and dressed, 32 pounds to the dozen, Swiss, J. J. Mercier.	Tanned and dressed, 32 pounds to the dozen, Swiss, H. Suser.	Harness.	Sole, first quality, medium weight, Buenos Ayres.	
1860	.....	.....	.....	.....	.....	.....	.....	116.7	111.4	133.4
1861	.....	.....	.....	.....	.....	.....	.....	110.0	100.4	117.3
1862	.....	.....	.....	.....	.....	.....	.....	110.0	121.1	135.2
1863	.....	.....	.....	.....	.....	.....	.....	126.7	156.4	162.0
1864	.....	.....	.....	.....	.....	.....	.....	166.7	202.4	201.7
1865	.....	.....	.....	.....	.....	.....	.....	200.0	189.2	213.8
1866	.....	.....	.....	.....	.....	.....	.....	173.3	180.7	176.5
1867	.....	.....	.....	.....	.....	.....	.....	170.0	157.9	177.8
1868	.....	.....	.....	.....	.....	.....	.....	160.0	143.8	168.6
1869	.....	.....	.....	.....	.....	.....	.....	156.7	156.8	169.5
1870	.....	.....	.....	.....	.....	.....	.....	153.3	153.5	165.4
1871	.....	.....	.....	.....	.....	.....	.....	146.7	148.2	160.8
1872	.....	.....	.....	.....	.....	.....	.....	136.7	146.7	154.0
1873	.....	.....	.....	.....	.....	.....	.....	146.7	150.8	154.9
1874	.....	.....	.....	.....	.....	.....	.....	140.0	151.1	152.6
1875	140.0	141.8	.....	159.6	136.4	148.1	141.8	123.3	145.2	141.2
1876	133.3	123.7	.....	153.2	127.3	140.7	134.0	120.0	131.2	125.3
1877	130.0	114.2	.....	140.4	122.7	133.3	118.6	116.7	131.3	137.2
1878	126.7	103.8	108.7	136.2	122.7	129.6	110.3	116.7	109.7	124.4
1879	120.0	105.7	104.3	131.9	115.5	125.9	105.2	106.7	117.7	120.0
1880	120.0	105.7	104.3	131.9	118.2	125.9	108.2	136.7	134.1	122.2
1881	120.0	109.0	108.7	131.9	122.7	125.9	108.2	133.3	129.7	126.1
1882	120.0	106.7	108.7	125.5	122.7	124.1	108.2	126.7	130.5	127.3
1883	118.3	104.1	108.7	123.4	118.2	124.1	106.2	120.0	129.2	124.8
1884	118.3	98.7	104.3	123.4	112.7	122.2	97.9	120.0	133.4	121.7
1885	116.7	102.1	104.3	121.3	112.7	122.2	103.1	113.3	124.1	122.7
1886	116.7	106.2	104.3	121.3	112.7	122.2	106.2	113.3	120.5	117.9
1887	113.3	106.2	104.3	114.9	112.7	120.4	106.2	113.3	111.6	118.6
1888	110.0	103.1	100.0	112.8	104.5	118.5	103.1	110.0	106.1	110.6
1889	106.7	101.0	100.0	106.4	104.5	107.4	101.0	110.0	99.8	108.0
1890	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1891	96.7	.....	100.0	97.9	104.5	96.2	.....	100.0	.....	104.5

by price. It would include a great variety of purchases not already accounted for under other heads, as well as other expenditures which are not affected by price changes. It has, therefore, been considered advisable to assume that one-half of this expenditure has been made for the direct purchase of commodities. The index for the group thus formed has been found by taking an average of all the articles in the list which have found no place in the previous calculation. The list of articles is as follows:

GROUP.	ARTICLE.
Food.	Corn starch, two varieties.
Cloths and clothing.	Ingrain and Brussels carpets, cotton, and wool, two varieties.
Fuel and lighting.	Matches.
Metals and implements.	All the articles.
Lumber and building materials.	All the articles.
Drugs and chemicals.	All the articles.
Miscellaneous.	All the articles.

Assuming, then, the remaining portion of expenditure for other purposes to remain equal, and for the time being that the other groups beside furniture and utensils have also remained uniform, we have the following application of the prices of 1891 to the relative volume of expenditure for miscellaneous purposes:

TABLE 16.—*Relative cost of miscellaneous expenditure, 1891, measured by consumption.*

Group.	Importance.	Index.	Result.
Taxes	115	100.0	115,000
Insurance	151	100.0	151,000
Organizations	66	100.0	66,000
Religion	92	100.0	92,000
Charity	24	100.0	24,000
Furniture and utensils	253	70.1	177,353
Books	100	100.0	100,000
Amusements	92	100.0	92,000
Intoxicating liquors	168	100.0	168,000
Tobacco	107	101.0	107,000
Illness and death	335	100.0	335,000
Other purposes	384	100.0	384,000
	383	92.1	352,743
Total	2,270	95.3	2,164,096

Having ascertained, in the manner described above, the relative cost of expenditure for the three groups, food, clothing, and miscellaneous expenses, we may apply these ratios to the general distribution of expenditures in the 2,561 families, as given in Table 8. In this table there are, beside the three groups mentioned, rent, fuel, and lighting. With rent we are met again with the difficulty that there has been no attempt to ascertain its relative cost in 1860 as compared with the present day, and we are again before the alternative of throwing it out altogether from our calculations or to consider it uniform. The ratio for lighting we have obtained from that for candles. It is to be regretted that no figures were obtained giving the price of kerosene oil, as the very marked fall in the price of that commodity since the year 1860 would have had an appreciable effect upon the result for lighting. It would have reduced slightly the relative price 48.1, which is given for lighting. For fuel we have taken an average of the various kinds of coal included in the table. Assuming in the present calculation that rent remains equal, we have the following statement of the relative cost of living in 1890 as compared with 1860:

TABLE 12.—*Relative prices of cloths and clothing, compared with 1890*—Continued.

GROUP VII.—SILKS.

Year.	Silks: black, Cachemire, Alexandra.							Average.
	No. 6, Alexandre Giraud & Co.	No. 7, Alexandre Giraud & Co.	No. 8, Alexandre Giraud & Co.	No. 9, Alexandre Giraud & Co.	No. 10, Alexandre Giraud & Co.	No. 11, Alexandre Giraud & Co.	No. 12, Alexandre Giraud & Co.	
1860	.....	.....	.....	.....	.....	.....	.....	.....
1861	.....	.....	.....	.....	.....	.....	.....	.....
1862	.....	.....	.....	.....	.....	.....	.....	.....
1863	.....	.....	.....	.....	.....	.....	.....	.....
1864	.....	.....	.....	.....	.....	.....	.....	.....
1865	.....	.....	.....	.....	.....	.....	.....	.....
1866	.....	.....	.....	.....	.....	.....	.....	.....
1867	.....	.....	.....	.....	.....	.....	.....	.....
1868	.....	.....	.....	.....	.....	.....	.....	.....
1869	.....	.....	.....	.....	.....	.....	.....	.....
1870	.....	.....	.....	.....	.....	.....	.....	.....
1871	190.9	178.5	200.5	186.0	193.7	.....	.....	189.9
1872	190.9	183.3	203.8	185.6	189.9	187.0	180.6	188.7
1873	180.5	172.6	191.8	177.0	182.3	178.2	.....	180.4
1874	179.9	172.0	188.0	172.1	178.5	177.4	.....	177.9
1875	163.4	155.4	172.1	155.4	158.6	158.2	159.1	160.2
1876	172.0	164.0	180.3	161.7	163.7	.....	.....	168.3
1877	144.5	137.1	151.9	136.5	131.2	.....	.....	140.2
1878	140.9	133.9	144.3	130.2	131.2	128.7	125.8	133.6
1879	150.0	144.1	159.6	147.7	142.6	140.6	141.9	146.6
1880	132.9	127.4	141.5	124.8	127.8	125.3	128.0	129.7
1881	122.6	119.4	129.5	117.6	119.8	118.4	121.1	121.2
1882	117.7	114.5	128.4	117.6	119.8	119.9	121.1	119.9
1883	117.7	112.9	124.6	113.1	115.2	113.0	113.6	115.7
1884	107.3	109.1	118.6	108.6	111.0	107.7	109.3	110.2
1885	106.1	104.3	119.7	105.4	105.5	105.7	106.8	107.6
1886	.....	.....	119.1	109.9	.....	110.7	109.0	112.2
1887	.....	114.0	127.9	114.4	118.1	.....	113.6	117.6
1888	.....	.....	122.4	109.9	110.5	105.7	105.4	110.8
1889	.....	110.2	119.7	108.1	109.7	108.0	110.0	111.0
1890	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1891	100.0	91.4	100.0	90.5	89.5	92.3	96.8	94.4

GROUP VIII.—LINEN GOODS.

Year.	Linen goods, thread.					Year.	Linen goods, thread.				
	Shoe, 10-s, Barbour.	Shoe, 10-s, Marshall.	3-cord, 200 yards, Barbour.	3-cord, 200 yards, Marshall.	Average.		Shoe, 10-s, Barbour.	Shoe, 10-s, Marshall.	3-cord, 200 yards, Barbour.	3-cord, 200 yards, Marshall.	Average.
1860	.....	.....	.....	.....	.....	1876	90.0	89.5	120.0	160.6	115.0
1861	.....	.....	.....	.....	.....	1877	90.0	89.5	120.0	150.7	112.6
1862	.....	.....	.....	.....	.....	1878	90.0	88.4	120.0	126.8	106.3
1863	.....	.....	.....	.....	.....	1879	80.0	88.4	120.0	119.7	102.0
1864	.....	.....	.....	.....	.....	1880	90.0	88.4	120.0	112.7	102.8
1865	.....	.....	.....	.....	.....	1881	90.0	88.4	90.0	107.0	93.9
1866	.....	.....	.....	.....	.....	1882	90.0	88.4	96.7	107.0	95.5
1867	.....	.....	.....	.....	.....	1883	90.0	86.0	96.7	107.0	94.9
1868	.....	.....	.....	.....	.....	1884	90.0	83.7	96.7	107.0	94.4
1869	.....	.....	.....	.....	.....	1885	90.0	88.4	96.7	114.1	97.3
1870	.....	81.4	.....	152.1	116.8	1886	90.0	88.4	96.7	104.2	94.8
1871	84.4	86.0	122.2	152.1	111.2	1887	90.0	88.4	96.7	104.2	94.8
1872	84.4	86.0	122.2	152.1	111.2	1888	90.0	88.4	90.0	104.2	93.2
1873	84.4	86.0	122.2	140.8	108.4	1889	90.0	100.0	90.0	116.9	99.2
1874	84.4	86.0	122.2	140.8	108.4	1890	100.0	100.0	100.0	100.0	100.0
1875	84.4	86.0	104.4	132.4	101.8	1891	100.0	100.0	100.0	100.0	100.0

TABLE 18.—*Percentual distribution of expenditure according to various budgets*—Concluded.

Groups	11	12	Group	13
Expenditure.	According to 432 monthly reports, Conn. Labor Rep., 1888.	According to 102 monthly reports, Conn. Labor Rep., 1888.	Expenditure.	Engel's distribution for families with $750 to $1,100 income.
Rent	7.97	11.46	Rent	12
Groceries and vegetables	32.82	31.67	Subsistence	50
Meat and fish	13.76	15.30	Clothing	18
Clothing	11.95	11.27	Fuel	5
Fuel	6.76	8.97	Sundry expenses	15
Other purposes	20.38	12.63		
Total	100.00	100.00	Total	100

These budgets give, as a rule, the proportion of expenditure for the same groups as are comprised in the original budget. In some cases the grouping is slightly different. In order to make use of these budgets as a test we have been obliged to assume the same distribution of elements within the different groups as that which we have found in our own calculation. In most cases we have filled in the relative price for food at the same figure as that already given. Where food has been divided between meat and vegetables, we have assigned to meat the ratio found in the table and to vegetables and groceries that which results from the omission of meat in our own tables for food. Where in the foregoing tables fuel and lighting have been classed together, we have, in forming the ratio, assigned the fuel that importance which it has in our tables as compared with lighting, in order to obtain a ratio for the group. In order to show the application of the foregoing principles to a specific case, we may consider the calculations given in Table 19 for budgets based on 102 monthly reports in the State of Connecticut.

TABLE 19.—*Relative prices, 1891, measured by budget from 102 Connecticut reports.*

Group.	Importance.	Index.	Result.
Rent	1,146	100.0	1,146,000
Groceries and vegetables	3,167	102.7	3,252,509
Meat and fish	1,530	104.2	1,594,268
Clothing	1,127	75.9	855,393
Fuel	897	98.1	879,957
Other purposes	1,263	93.6	1,182,168
Total	10,000	89.1	8,910,287

It will be observed that the distribution of expenditure is different from that given in the original budget, which is the basis of all our calculations. What is there contained under food is here given as two groups: groceries and vegetables, and meat and fish. In order to adapt our relative prices to these groupings, we have taken the sum of meat and fish as found in the group, food, and taken the index for this group from our original budget to apply to the foregoing calculation. The ratio for groceries and vegetables is, therefore, that for the remaining portion of the group, food, after the subtraction of meat and fish. The other groups are the same as those in the original budget except the group, other purposes. Since lighting is not specifically mentioned, it

must be clear that it is included here under the head, other purposes. To find the appropriate ratio for this group, we have, therefore, added together the groups, other purposes and lighting, as found in the original budget (Table 17), in the proportion in which they there exist, and have divided their sum by their aggregate amounts. In this manner the ratio which is found in the foregoing calculation has been obtained. This will sufficiently illustrate the methods which have been pursued in comparing the original budget with others, and it is not necessary to go into the details of all the calculations. The results are as follows, given in the order in which the budgets are printed in Table 18:

2,561 normal families, the original budget	96.1
192 normal families	95.7
232 special budgets	96.3
72 normal families, derived from the preceding	96.4
Massachusetts budgets of 1875	97.7
Massachusetts budgets of 1883	97.0
Illinois budgets, 1884	95.3
Kansas budgets	96.4
St. Louis budgets	95.2
Kansas City budgets, 1890	96.6
Connecticut reports (432) 1888	90.8
Connecticut reports (102) 1888	89.1
Engel's normal distribution	96.3

This statement shows a striking similarity in the results obtained. A wide divergence is noticed only in two cases—those from Connecticut. It may be added that these are the least satisfactory statements of family expenditure which are included in the list. Apart from these two cases the range of variation is very limited, between 95.2 on the one hand and 97.7 on the other. The original budget, the basis of our investigation, stands midway between the extremes.

European statisticians have constructed price comparisons on the basis of a limited number of wholesale prices, and have sometimes attempted to measure the importance of the various quotations by the amount annually consumed in the entire nation. Instead of deriving the consumption from the consumption of families they have taken the consumption of the nation, derived by subtracting from the home production, plus the imports, the amount exported. The best known instance of this class of calculation is that made by Mr. Palgrave in his report to the British commission on the Depression of Trade and Industry. His statement of prices includes nineteen articles, of which the following is the list: Raw cotton, silk, flax and hemp, wool, meat, iron, copper, lead, tin, timber, tallow, leather, hides, indigo, oils, coffee, sugar, tea, tobacco, and wheat. Mr. Palgrave's combination of these figures was based upon their total annual consumption in Great Britain in each of the years compared. So far as it was possible to obtain a statement of the values of these articles of 1890 consumed in the United States we give the results in Table 20:

TABLE 20.—*Value of certain articles consumed in the United States in 1890.*

Cotton	$117,556,351	Timber	$437,293,647
Wool	156,729,052	Coffee	76,750,976
Meat	743,179,222	Sugar	116,682,572
Pig iron	152,970,262	Tobacco	30,276,122
Copper	19,025,705	Wheat	316,337,512
Lead	16,612,030	Flax and hemp	59,804,196

This table does not include all the articles included in Mr. Palgrave's list. Some are omitted because of the extreme difficulty of obtaining an accurate statement of their production and consumption, and others because there were no prices on our list which could be applied to them in the calculation which we desire to make. We have omitted leather and hides because of the difficulty of obtaining the value of the home product, and the same is true of tallow. Articles given in the list, but for which no prices are given in our system, are silk, indigo, oils, tin, and tea. Our comparison is, therefore, more limited than Mr. Palgrave's, and the table which is given has been constructed with some difficulty, owing to the various sources from which the information had to be obtained. Production is usually given by the calendar year; exports and imports are reported by the fiscal year ending June 30. Where it has been possible to secure from the Statistical Abstract an official statement of the consumption of certain articles in 1890 this has been taken as a basis. Where the values were not given they had to be calculated. Thus cotton and wheat were taken at their export prices, sugar at the import price, and iron at the spot value. To obtain the value of wool consumed we divided the cost of wool used as material in 1889 by the number of pounds so used and calculated the value of the total consumption at this price. To this we added the value of the manufactures of wool imported in the year 1890. The value of the meat product has been estimated to be $900,000,000, and from this we have deducted the exports. The value of lumber product is based upon an estimate of the Census Office.

In applying to these figures the relative prices for 1891, as revealed by Table 1, we have confined ourselves exclusively to the products in question, without taking into consideration articles which could have been manufactured from them. Thus the ratio for wool is the average of two wool quotations; for meat we have taken the ratio which was found in the original budget, Table 11; iron is based upon pig iron; copper, upon an average of sheet and ingot copper; lead, upon an average of the lead articles in the list of metals and implements; wood, upon an average of the lumber products in the group, lumber and building materials; sugar is the average of several quotations; tobacco, wheat, cotton, and flax and hemp are derived from the calculated tables of agricultural prices which will be considered later, and which are found in Table X of this report. The results of the comparison are shown in the following table:

TABLE 21.—*Relative prices, 1891, measured by annual consumption of certain articles.*

Articles.	Consumption, in millions of dollars.	Importance.	Index.	Result.
Cotton	118	53	80.3	42.559
Flax and hemp	60	27	82.8	22.356
Wool	157	70	75.4	52.780
Meat	743	331	101.0	334.310
Iron	153	68	77.0	52.360
Copper	19	8	67.1	5.368
Lead	17	8	82.6	6.608
Wood	437	194	155.6	301.864
Coffee	77	35	165.2	57.820
Sugar	117	52	64.9	33.748
Tobacco	30	13	140.0	18.200
Wheat	316	141	87.7	123.657
Total	2,244	1,000	105.2	1,051.630
Or without wood	1,807	806	93.2	749.766

It will be observed that the price ratio of 105.2, which results from this calculation, is widely at variance with the results derived from the original budget. Explanation for this divergence is easily found from the fact that we are dealing here with a limited number of prices, all of them being the prices of raw products, manufactured articles not entering into the computation. A close analysis of the foregoing table will reveal the fact that the high average price is due in a large measure to the high ratio of wood and the importance which it occupies in the table. If we omit wood from our consideration, and here it should be remembered that so far as wood enters into manufactured articles it has declined in price and not advanced as the raw product has done, we shall have as a result of the calculation 93.2 as the relative price in 1891. This is more strictly in harmony with the results already obtained. But it could not be expected that the two methods should have given absolutely identical results. That based upon the budget is, in my judgment, so far superior to that based upon the total consumption of articles that it must be considered as authoritative. And the fact that this latter calculation differs from it is due simply to the inadequacy of the latter as compared with the former.

COURSE OF PRICES.

In the foregoing analysis we have confined ourselves exclusively to the prices of the year 1891 in order to show present prices as compared with those of an earlier day. It is important, however, to discover what has been the course of prices during the period in question. For individual articles it is given in Table 1, but as it is almost impossible to obtain from them a knowledge of the general tendency of prices we must resort to some combinations in order to bring out the salient facts. We have, therefore, prepared a table (22) which gives for each group of articles in the list the average relative price in each year.

TABLE 22.—*Relative prices in each year, 1840–1891, by groups of articles.*

Year.	General average of prices.								
	Food.	Cloths and clothing.	Fuel and lighting.	Metals and implements.	Lumber and building materials.	Drugs and chemicals.	House furnishing goods.	Miscellaneous.	All articles.
1840	96.6	110.7	305.8	123.5	110.0	145.8	116.4	147.1	116.8
1841	94.4	113.4	208.9	123.7	111.8	141.3	116.4	147.1	115.8
1842	82.9	100.9	202.0	118.7	108.8	131.6	116.4	170.6	107.8
1843	79.3	99.9	187.5	114.7	105.4	121.4	100.3	123.5	101.5
1844	81.6	105.0	119.7	133.3	103.0	119.7	102.3	129.5	101.9
1845	87.3	97.1	239.6	110.8	106.7	121.0	102.3	114.8	102.8
1846	94.6	95.3	143.8	116.9	106.2	123.9	111.0	111.0	106.4
1847	94.7	97.6	110.7	120.6	108.2	112.5	120.3	121.7	106.5
1848	83.5	87.5	106.1	119.7	105.3	113.0	121.7	125.6	101.4
1849	79.0	82.2	100.0	124.9	97.6	111.0	120.5	109.8	98.7
1850	85.5	91.3	102.6	114.8	102.2	123.6	125.6	107.7	102.3
1851	90.6	94.7	97.3	119.2	97.2	125.8	120.0	102.7	105.9
1852	88.7	88.7	93.5	117.7	100.4	111.8	111.9	100.5	102.7
1853	101.2	98.6	101.6	122.8	103.2	107.0	118.7	109.2	109.1
1854	105.9	97.4	106.8	125.6	114.1	110.7	121.2	108.4	112.9
1855	111.8	94.7	121.1	117.8	103.4	129.2	121.2	115.2	113.1
1856	110.4	100.6	126.4	115.3	102.8	135.5	115.5	121.6	113.2
1857	117.5	106.0	113.3	110.4	105.0	126.8	116.8	110.0	112.5
1858	94.6	98.0	111.4	101.3	103.8	116.0	108.7	97.1	101.8
1859	98.8	101.1	98.8	100.1	98.7	104.2	103.2	100.8	100.2
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	95.8	94.9	103.5	102.5	108.9	101.3	96.8	100.7	100.6
1862	110.4	124.1	97.2	117.2	149.2	116.4	89.5	103.7	117.8
1863	133.0	191.6	107.1	140.0	177.1	146.5	123.1	129.1	148.6
1864	165.8	260.7	180.2	179.8	221.3	170.3	164.6	154.4	190.5
1865	216.5	299.2	257.8	191.4	182.1	271.6	181.1	202.8	216.8
1866	173.8	226.6	280.5	171.1	186.9	230.2	185.3	171.0	191.0
1867	163.9	179.9	196.3	161.3	178.8	211.2	159.1	161.4	172.2
1868	164.2	146.8	218.7	150.5	174.3	177.9	134.9	164.1	160.5
1869	162.9	147.5	206.8	141.3	165.9	160.9	120.7	162.3	153.5
1870	153.8	139.4	196.5	127.8	148.3	149.6	121.6	148.7	142.3
1871	169.3	133.3	144.1	122.2	151.4	139.4	128.5	148.8	136.0
1872	137.3	143.0	149.2	128.0	166.9	134.0	123.2	132.7	138.8
1873	129.8	136.9	134.6	129.8	171.9	141.5	109.1	132.4	137.5
1874	131.5	127.9	149.6	121.1	154.9	146.8	109.5	129.8	133.0
1875	130.5	120.1	156.5	117.5	143.7	144.2	95.0	122.9	127.6
1876	123.1	107.5	144.6	108.4	137.3	121.8	87.2	114.2	118.2
1877	120.3	101.8	108.0	100.0	125.8	122.3	79.0	118.2	110.9
1878	107.0	93.2	93.0	92.1	116.8	114.2	74.3	111.7	101.3
1879	97.6	91.1	95.3	88.4	115.1	110.9	68.6	102.1	96.6
1880	107.6	104.5	100.2	96.3	130.9	113.1	85.2	109.8	106.9
1881	110.9	99.9	113.7	91.1	131.3	110.4	77.6	108.8	105.7
1882	118.8	98.7	110.1	91.2	137.5	107.6	78.1	114.6	108.5
1883	118.8	94.8	114.2	87.5	134.3	98.1	77.5	117.3	106.0
1884	108.9	88.9	102.4	81.0	129.5	95.7	76.3	111.9	99.4
1885	98.7	84.8	89.6	77.4	126.6	86.9	70.1	97.5	93.0
1886	99.5	85.1	86.2	75.8	128.5	83.9	68.4	91.3	91.9
1887	104.2	84.7	88.6	74.9	126.5	83.6	66.4	88.6	92.6
1888	109.4	84.7	94.9	74.9	124.8	86.0	66.9	89.3	94.2
1889	111.9	83.6	95.3	72.9	124.0	88.8	70.0	88.8	94.2
1890	104.6	82.4	92.5	73.2	123.7	87.9	69.5	89.7	92.3
1891	103.9	81.1	91.0	74.9	122.3	86.3	70.1	95.1	92.2

In this table it must be remembered that the articles have been given absolutely indentical weight or importance in the formation of the result. It is a simple average in each case of all the relative prices found in the given year in the group named. It is instructive to observe that the price of food in 1891 had reached something near the level of 1860, the sharp advance which followed the outbreak of the war and the inflation of the currency being only partly overcome at the present time. While food to-day is slightly higher than it was in 1860, it is considerably higher than it was in the year 1840. The period from 1840 to 1845 as compared with 1860 stands at from 5 per cent to 20 per cent less. In none of the other groups are the same tendencies observable as in food. In all of them the prices in 1840 are notably higher than they are in 1860. In cloths and clothing, in lumber and building materials, prices were 10 per cent higher; in house furnishing goods, 16

per cent higher; in metals and implements, nearly 25 per cent higher; and in drugs and chemicals and miscellaneous goods, nearly 50 per cent higher. A single article represents the group fuel and lighting in 1840. The years immediately following show the group double 1860 prices. In all of these articles there was a decline toward 1860, which was interrupted by the period of the war and the inflation of the currency, so that prices rose to an enormous height in the following years.

In the period from 1870 to 1875 prices approached the level of 1840. In the following five years they fell to about the level of 1860, and since 1880 there has been a continued decline in prices with the exception of one group. This is the group, lumber and building materials, where since 1860 there has been an advance of 22 per cent, and where the price stands 12 per cent higher to-day than it was in 1840. But in the other groups, representing mainly manufactured products, the decline has been very marked. Prices of cloths and clothing, metals and implements, and house furnishing goods are 20 to 25 per cent lower to-day than they were in 1860. Drugs and chemicals show a decline of about 15 per cent, but in this statement alcohol, which in consequence of taxation sells to-day at four times its price in 1860, is included. If it be omitted the decline in the group is over 30 per cent. The table also contains a column giving the general average of prices. From this it appears that, giving all the articles in the table an equal importance in the result, prices in 1840 were over 15 per cent higher than in 1860. Following the war, prices advanced rapidly until in 1865 they were double what they were in 1860. This advance was not entirely overcome until between the years 1876 and 1877, when the level of the price of 1840 was reached. Between 1883 and 1884 the prices reached the general level of 1860, and since then have declined on the whole about 10 per cent.

In the foregoing table there are contained in the group, metals and implements, as many as twenty-five different varieties of pocket knives. These form about one-half the total number of articles included in the list, and may, therefore, bring about a result for the group which is not representative of all articles of this class. We give, therefore, in the following table the average prices for metals and implements as ascertained, after excluding pocket knives.

TABLE 23.—*Relative prices of metals and implements, excluding pocket knives.*

Year.	Price.	Year.	Price.	Year.	Price.	Year.	Price.
1840	123.5	1853	116.5	1866	192.7	1879	[illegible]
1841	123.7	1854	126.1	1867	178.9	1880	105.1
1842	118.7	1855	116.5	1868	167.1	1881	[illegible]
1843	114.7	1856	115.4	1869	157.9	1882	[illegible]
1844	133.3	1857	113.1	1870	138.8	1883	[illegible]
1845	110.8	1858	100.9	1871	132.0	1884	[illegible]
1846	116.9	1859	100.6	1872	145.5	1885	[illegible]
1847	120.6	1860	100.0	1873	148.6	1886	[illegible]
1848	110.7	1861	99.1	1874	136.7	1887	[illegible]
1849	124.9	1862	110.1	1875	131.0	1888	[illegible]
1850	114.8	1863	141.2	1876	117.7	1889	[illegible]
1851	102.2	1864	198.0	1877	104.5	1890	[illegible]
1852	99.6	1865	218.7	1878	93.7	1891	[illegible]

In the groupings which we have given, each article in the list receives an equal importance, and the comparison is open to all the objections which are raised to that method. We have, therefore, made a comparison of prices based upon the methods which we employed to ascertain the real importance of the prices of 1891. For each year we made a calculation similar to that which has been made in the text for 1891. From the period 1860 down to the present time the figures for making this calculation were comparatively complete, and we feel

sure that the results are worthy of the utmost confidence, providing the methods which have already been described be considered correct. On the other hand, the figures from the year 1840 to the present time are less complete, and the results are not quite so trustworthy. There have been some important gaps in this portion of the work. Thus we had for this early period no quotations giving the price of milk and of eggs. These had, therefore, to be omitted from the comparison. Flour was also missing in this report in Table I, but we have been able to supply this defect from a subsequent table of our report, which gives the prices paid by the Commissary Department of the United States Army for supplies. These prices have been used to ascertain the relative prices of flour during the period from 1841 up to 1860. In the meat group, hog products were represented for the period 1840 to 1860, but beef was not. From Table X, giving the prices of farm products, we obtained the prices of live beeves, and have used these as indicative of the course of prices of beef during this period. Despite these substitutions, however, the calculations only cover a portion—a large portion, it is true—of the total expenditure for food, and in the calculation of the total consumption the ratio ascertained for this portion has been assigned to the entire consumption.

In the case of clothing we have been unable to form any distinctions as to the importance of the various articles which enter into the total. We have applied for the period of 1840 to 1860 the average relative price which was indicated in the former table for the group, cloths and clothing. The other groups have been filled out for this period in the manner which has already been described in relation to the prices for 1891. With these cautions as to the accuracy of calculations for the early part of the investigation, the period 1840 to 1860, we give in the following table a statement of our results:

TABLE 24.—*Relative prices in each year, 1840–1891, for all articles grouped by different methods.*

Year.	All articles simply averaged.	All articles averaged according to importance, certain expenditures being considered uniform.	All articles averaged according to importance, comprising 68.60 per cent of total expenditure.	Year.	All articles simply averaged.	All articles averaged according to importance, certain expenditures being considered uniform.	All articles averaged according to importance, comprising 68.60 per cent of total expenditure.
1840	116.8	98.5	97.7	1866	191.0	160.2	187.7
1841	115.8	98.7	98.1	1867	172.2	145.2	165.8
1842	107.8	93.2	90.1	1868	160.5	150.7	173.9
1843	101.5	89.3	84.3	1869	153.5	135.9	152.3
1844	101.9	89.8	85.0	1870	142.3	130.4	144.4
1845	102.8	92.1	88.2	1871	136.0	124.8	136.1
1846	106.4	96.7	95.2	1872	138.8	122.2	132.4
1847	106.5	96.7	95.2	1873	137.5	119.9	129.0
1848	101.4	92.0	88.3	1874	133.0	120.5	129.9
1849	98.7	88.9	83.5	1875	127.6	119.8	128.9
1850	102.3	92.6	89.2	1876	118.2	115.5	122.6
1851	106.9	99.1	98.6	1877	110.9	109.4	113.6
1852	102.7	98.5	97.9	1878	101.3	103.1	104.6
1853	109.1	103.4	105.0	1879	96.6	96.6	95.0
1854	112.9	103.4	105.0	1880	106.9	103.4	104.9
1855	113.1	106.3	109.2	1881	105.7	105.8	108.4
1856	113.3	108.5	112.3	1882	108.5	106.3	109.1
1857	112.5	109.6	114.0	1883	106.0	104.5	106.6
1858	101.8	100.1	113.2	1884	99.4	101.8	102.6
1859	100.2	102.0	102.9	1885	93.0	95.4	93.3
1860	100.0	100.0	100.0	1886	91.9	95.5	93.4
1861	102.6	95.9	94.1	1887	92.6	96.2	94.5
1862	117.8	102.8	104.1	1888	94.2	97.4	96.2
1863	145.0	122.1	132.2	1889	94.2	99.0	98.5
1864	190.5	149.4	172.1	1890	92.3	95.7	93.7
1865	218.8	190.7	232.2	1891	92.2	96.2	94.4

In the first column we have the relative price calculated as a simple average of all the quotations. In the second column we have the relative price measured by consumption, but assuming that rent and other expenditures whose changes could not be measured had remained equal in amount. In the third column we omit these expenditures and apply our relative prices solely to those portions of family expenditure which go for the direct purchase of commodities. An examination of this table shows slight variations between the different systems. Since the second column includes nearly one-third of the total, which is assumed to remain at 100 throughout the period, it is evident that the third column, in which this is omitted, will show greater variations. It is instructive to note, however, the comparative agreement between the first and third columns after the year 1860. From the third column it is clear that the cost of living, so far as it is made up of the direct purchase of commodities, reached, between 1884 and 1885, the level of 1860, and since that time has gone below that point.

In this table it is noticeable that during the period 1840–'60 there is considerable difference between the second and third columns and the first. This is undoubtedly due to the fact that in this period the price of food was low, and this, being the most important group of consumption, must reduce the general result in any statement when the volume of consumption is taken into consideration.

In order to show this more clearly we have prepared the following table, 25, showing the course of prices for meat and food generally and for clothing, measured by the consumption of these articles. It will be remembered that in the period 1840–'60 the ratio for clothing is a simple average.

TABLE 25.—*Relative prices, 1840–1891, of food and clothing measured by consumption.*

Year.	Meat.	Other food.	Total food.	Clothing.	Year.	Meat.	Other food.	Total food.	Clothing.
1840	80.1	94.6	88.6	110.7	1866	177.1	169.6	171.9	201.9
1841	72.2	91.1	84.3	113.4	1867	169.1	167.0	167.6	160.2
1842	60.4	85.0	76.2	100.9	1868	169.3	170.3	170.0	133.2
1843	66.5	79.1	74.6	99.9	1869	171.9	159.6	163.4	129.5
1844	62.4	79.4	73.3	105.0	1870	174.3	146.3	154.9	122.5
1845	79.4	82.8	81.6	97.1	1871	159.6	136.3	143.5	122.1
1846	87.6	93.8	91.6	95.3	1872	138.5	134.9	136.0	121.4
1847	88.2	89.5	89.1	97.6	1873	138.9	130.7	133.2	121.8
1848	77.6	83.7	81.5	87.5	1874	134.6	136.6	136.0	112.3
1849	80.3	77.8	78.7	82.2	1875	140.4	135.0	136.6	107.2
1850	86.6	80.7	82.8	91.3	1876	135.6	130.7	132.2	99.4
1851	103.9	94.5	97.7	94.7	1877	120.2	127.5	125.3	96.2
1852	122.6	88.6	100.1	88.7	1878	111.5	117.7	115.8	89.8
1853	111.5	103.4	106.1	98.6	1879	98.5	102.9	101.6	85.0
1854	109.9	102.8	105.2	97.4	1880	103.6	116.9	112.8	92.4
1855	104.7	114.5	111.2	94.7	1881	110.9	122.5	118.9	88.5
1856	101.6	119.9	113.7	100.6	1882	119.5	120.8	120.4	87.9
1857	113.7	118.5	116.9	106.0	1883	115.4	117.1	116.6	84.9
1858	94.8	96.5	95.9	98.0	1884	121.1	109.2	112.8	81.9
1859	98.9	107.1	104.4	101.1	1885	107.6	97.2	100.4	79.3
1860	100.0	100.0	100.0	100.0	1886	99.3	102.4	101.4	78.0
1861	88.4	93.1	91.6	94.2	1887	100.0	104.4	103.1	79.1
1862	84.5	107.2	100.3	114.5	1888	102.4	106.8	105.5	77.9
1863	90.6	134.5	120.1	170.1	1889	107.7	110.0	109.3	77.5
1864	124.5	168.8	154.3	207.1	1890	99.6	103.5	102.3	75.9
1865	197.0	240.3	226.2	259.4	1891	101.0	104.9	103.7	75.9

In the foregoing table the most striking fact is that food in the period 1840–'50 was considerably lower than in 1860, and also lower than in the last few years. On the other hand, clothing is much lower to-day than it was in 1840 or in 1860.

In order to facilitate comparison we have reduced Table 24 to a sim-

ple form, giving the results for periods of five years instead of each year separately. The facts are found in Table 26.

TABLE 26.—*Relative prices by five-year periods, 1840–1891, for all articles grouped by different methods.*

Periods.	All articles simply averaged.	All articles averaged according to importance, certain expenditures being considered uniform.	All articles averaged according to importance, comprising 68.60 per cent of total expenditure.
1840–'44	108.8	93.9	91.0
1845–'49	103.2	93.3	90.1
1850–'54	106.6	99.4	99.1
1855–'59	108.2	107.1	110.3
1860–'64	131.5	114.0	120.5
1865–'69	178.8	156.5	182.4
1870–'74	137.5	123.6	134.4
1875–'79	110.9	108.9	112.9
1880–'84	105.3	104.4	106.3
1885–'89	93.2	96.7	95.2
1890–'91	92.3	96.0	94.1

In this table the features noted in Table 24 are brought out still more strongly. It is apparent that, measured by consumption, prices were somewhat lower in 1840 to 1850 than they are at the present time. On the other hand prices since 1885 have been lower than at any period since 1850.

SHORT PRICE SERIES.

In the discussion of prices of cloths and clothing we have already given a complete analysis of the prices in Table XI, whether covering the period from 1860 to the present time, or only a portion of it. The relative prices for all articles are calculated upon the basis of 1890, and the results displayed in ample detail in Table 12.

In the remaining groups there is a smaller number of quotations which are imperfect. In order to make an examination of these prices we have compared the years 1865, 1870, 1875, 1880, and 1885 with 1890. The results of this comparison are found in Table 27.

TABLE 27.—*Prices at different dates compared with prices in 1890.*

FOOD.

Articles.	1865.	1870.	1875.	1880.	1885.
	Compared with 1890.				
Beans, medium	.....	.....	94.5	84.9	80.8
Bread:					
No. 1 butter crackers	.....	.....	.....	120.0	113.3
XX pilot	.....	.....	128.6	100.0	107.1
Fish:					
Cod, pickled, Bank, medium	.....	.....	100.0	75.0	62.5
Herring, shore	.....	.....	138.5	76.9	100.0
Fruit:					
Apples, evaporated	.....	.....	.....	176.5	82.4
Prunes, Turkish	.....	303.4	282.8	182.8	131.0
Raisins, Valencia	.....	.....	157.1	112.5	121.4
Salt, dairy	275.0	267.0	187.5	140.2	110.7
Spices:					
Mustard, best domestic	.....	99.3	99.3	99.3	100.0
Pepper, whole, Singapore	.....	190.7	151.4	108.4	112.1
Sugar centrifugal, Nos. 10 and 13, Dutch standard	.....	193.5	153.3	150.0	92.4
Vegetables, fresh onions	184.0	168.0	88.0	100.0	60.0
Vinegar, cider	.....	183.3	150.0	133.3	116.7

TABLE 27.—*Prices at different dates compared with prices in 1890*—Continued.

FUEL AND LIGHTING.

Articles.	1865.	1870.	1875.	1880.	1885.
	Compared with 1890.				
Coal, bituminous	361.7	200.0	177.1	135.7	98.6

METALS AND IMPLEMENTS.

Anvils, imported	107.3	.....	112.2	102.4	100.0
Augers, extra, ¾-inch	.....	215.8	.....	189.5	100.0
Axes, M. C. O. Yankee	.....	.....	.....	125.0	108.0
Barbed fence wire	.....	.....	.....	229.9	142.5
Butts, loose joint, cast, 3 by 3-inch	.....	.....	.....	171.4	126.7
Chisels, extra, socket firmer, 1-inch	.....	214.3	.....	157.1	119.0
Files:					
4-inch taper, Nicholson	.....	302.6	221.1	181.6	107.9
8-inch mill, bastard, Nicholson	.....	270.3	237.4	183.5	101.1
10-inch flat, bastard, Nicholson	.....	.....	.....	186.0	114.0
12-inch flat, bastard, Nicholson	.....	242.4	196.7	161.0	95.7
Hammers, Maydole	.....	.....	.....	128.6	120.0
Nickel, refined	205.4	230.8	447.7	160.2	104.6
Planes, Bailey, No. 5	.....	.....	.....	138.2	125.0
Rope:					
New Zealand	.....	.....	122.2	.....	.....
Sisal	.....	195.0	110.0	120.0	80.0
Saws, wood, No. 77	.....	.....	.....	144.0	105.0
Scythes, grass, clipper	.....	.....	.....	175.1	136.4
Sheet iron:					
Planished or American-Russian, best grade	.....	.....	.....	118.8	100.0
Planished or American-Russian, second grade	.....	.....	.....	118.1	100.0
Russian	.....	135.0	157.5	127.5	107.5
Shovels, Ames No. 228	.....	.....	.....	120.0	111.3
Spelter, domestic	294.1	196.1	129.9	117.6	83.3
Steel rails, Bessemer	.....	336.2	216.5	212.6	89.8
Tin plates, average grade:					
Charcoal	.....	.....	.....	132.2	88.4
do	.....	.....	.....	132.4	91.9
Coke	.....	.....	.....	131.1	86.4
do	.....	.....	.....	138.9	89.7
Trowels, M. C. O. brick, 10½-inch	.....	.....	.....	173.5	138.2
Vises, solid box, 50-pound	.....	.....	.....	172.7	126.3
Wood screws, 1-inch, No. 10 flat head	.....	.....	.....	105.3	57.9
Zinc, domestic, sheet	.....	.....	.....	128.0	94.0

LUMBER AND BUILDING MATERIALS.

Cement, Portland	.....	.....	.....	132.6	116.3
Hickory, boards, first quality, 1-inch, rough	.....	.....	95.0	100.0	100.0
Oak, boards:					
Red, plain, first quality, 1-inch, rough	.....	.....	78.8	78.8	87.9
Red, quartered, first quality, 1-inch, rough	.....	.....	.....	78.3	82.6
White, quartered, first quality, 1-inch, rough	.....	.....	.....	80.0	93.0
Pine flooring, yellow, southern, 1-inch	.....	.....	95.5	86.4	81.8

DRUGS AND CHEMICALS.

Copperas	.....	260.0	.....	.....	.....
Acetate of lime, gray	.....	.....	.....	173.3	66.7

HOUSE FURNISHING GOODS.

Earthenware:					
Chambers, cream color, 9-inch, without covers	208.2	153.4	166.6	122.1	115.7
Chambers, white granite, 9 inch, with covers	250.3	180.0	184.2	131.5	142.7
Plates, cream color, 7-inch	188.3	141.2	149.5	119.7	116.5
Plates, cream color, 8-inch	207.8	151.3	163.2	130.6	113.8
Plates, white granite, 7-inch	.....	206.8	184.4	131.6	135.1
Plates, white granite, 8-inch	.....	224.6	184.2	131.6	125.1
Tea cups, cream color, without handles	203.7	141.0	166.0	133.0	113.9
Tea cups, white granite, with handles	.....	184.8	184.5	131.7	135.4
Tea cups, white granite, without handles	.....	162.3	175.8	125.0	112.7
Tea saucers, cream color	203.7	141.0	166.0	133.0	113.8
Tea saucers, white granite	.....	162.3	175.8	125.0	119.1

TABLE 27.—*Prices at different dates compared with prices in 1890*—Concluded.

HOUSE-FURNISHING GOODS—Continued.

Articles.	1865.	1870.	1875.	1880.	1885.
	Compared with 1890.				
Furniture, bedroom sets:					
Painted, 5 pieces	.....	.....	.....	100.0	114.3
Walnut, 3 pieces	.....	.....	.....	79.4	93.4
Glassware:					
Cans, molasses, britannia top	.....	.....	.....	.....	103.7
Cans, molasses, tin top	.....	.....	.....	169.2	115.4
Nappies, 4-inch	.....	.....	.....	160.0	125.0
Nappies, 6-inch, with covers	.....	.....	.....	209.3	104.7
Knives, table:					
Medium, No. 510	142.9	100.0	85.7	100.0	100.0
Medium, celluloid handles, No. C75	.....	.....	135.7	128.6	100.0
Medium, rubber handles, No. 8,675	238.0	160.0	160.0	140.0	106.0
Medium, solid steel, silver plated all over, No. 2,316	.....	342.1	149.1	114.0	87.7
Knives and forks, carvers:					
Celluloid handles No. C75	.....	.....	148.1	166.7	111.1
Rubber handles, No. 8,675	235.5	204.5	163.6	154.5	109.1
Stag handles, No. 016	.....	.....	.....	137.5	100.0
Wooden handles, No. 2,101	.....	.....	118.2	136.4	100.0
Knives and forks, table, cocobolo handles:					
No. 1,878	388.9	265.1	166.7	177.8	92.4
Fancy metal bolster and cap, No. 22, 100	165.4	134.6	119.2	132.7	90.4
Metal bolster, No. 21	234.2	232.3	167.7	141.9	87.1
Metal bolster and cap, No. 2, 200	.....	.....	100.0	131.0	85.7
Knives and forks: table, iron handles, No. 900	.....	.....	177.8	177.8	92.4

MISCELLANEOUS.

Tobacco, plug, navy:					
Best grade	.....	.....	.....	128.9	100.0
Low grade	.....	.....	.....	115.6	103.1
Medium grade	.....	.....	.....	124.2	106.1
Soap, German, mottled	321.1	189.5	147.4	105.3	115.8

As might be expected among so large a range of articles, there is considerable variation. At the same time the tendencies of these prices conform on the whole pretty closely to those which have already been measured. This is brought out in the following table:

TABLE 28.—*Prices of articles, by groups, at different dates, compared with 1890.*

Groups.	1865.	1870.	1875.	1880.	1885.
	Compared with 1890.				
Food:					
Articles in Table 1	207.0	147.0	124.8	102.9	94.4
Articles in Table 27	229.5	200.9	144.3	118.6	99.3
Fuel and lighting:					
Articles in Table 1	257.1	212.4	169.2	108.3	96.9
Articles in Table 27	361.7	200.0	177.1	135.7	98.6
Metals and implements:					
Articles in Table 1	261.5	174.6	160.5	131.6	105.7
Articles in Table 27	232.3	233.9	195.1	149.7	105.7
Lumber and building materials:					
Articles in Table 1	147.5	119.9	116.2	105.8	102.3
Articles in Table 27	.....	.....	89.8	92.7	93.6
Drugs and chemicals:					
Articles in Table 1	309.0	170.2	164.1	128.7	98.9
Articles in Table 27	.....	260.0	.....	173.3	66.7
House-furnishing goods:					
Articles in Table 1	260.6	175.0	136.7	122.6	100.9
Articles in Table 27	222.2	182.6	156.2	136.9	108.1
Miscellaneous:					
Articles in Table 1	226.1	165.8	137.0	122.4	108.7
Articles in Table 27	321.1	189.5	147.4	118.5	106.3
All articles in Table 1	234.9	154.2	138.2	115.8	100.8
All articles in Table 27	237.1	202.1	157.4	134.8	104.1

This table compares the results reached in Table 1 with those of Table 27. In the group, food, we find a fair agreement of the results, in view of the wide variety of objects comprised in it. In fuel and lighting there is but one article in Table 27, but it has much the same tendencies as the larger number comprised in Table 1. Metals and implements, a more homogeneous group, shows a greater agreement. In lumber and building materials the two series are divergent, which is undoubtedly due to the greater prominence of lumber in Table 27 than in Table 1. House furnishing goods show a very considerable similarity in the two series. In the heterogeneous group, miscellaneous, an agreement is hardly to be looked for. The results of the whole, as summarized in the total, seem to show that there has been a somewhat greater decline in the articles in Table 27 than those in Table 1.

Before leaving this subject we may make one more comparison. From the facts presented in Table 12 we are able to make, since 1870, at least, a somewhat closer adaptation of the prices of cloths and clothing to the grouping that is made in Table 9, giving expenditure for this purpose, than that used in our previous calculations. We are able to cover the greater part of the expenditure for clothing, and may fairly assume it to represent the whole. We may take as illustrations the years 1870, 1875, 1880, and 1885. Taking each of these years successively as a base line, the relative price of clothing was as follows:

1890 compared with—	Per cent.
1870	63.5
1875	71.0
1880	78.9
1885	94.9

These results are based upon the closer adaptation of the price figures to the grouping of Table 9. We may profitably compare them with the figures which result from the methods adopted in this report. If we take the clothing figures of Table 25 and compare 1890 with the years in question, we have the result:

1890 compared with—	Per cent.
1870	62.0
1875	70.8
1880	82.1
1885	95.7

The substantial agreement of these two series is a confirmation of the methods adopted in the analysis of the report.

GOLD PRICES.

The statement of relative prices for the period 1862–1878 is much affected by the changing value of the currency in which the prices are expressed. To make a comparison of these years with those which precede and which follow we must take into account the depreciation of the currency. We have therefore reduced some of the more important comparisons to the gold basis. In Table 29 we give gold prices by groups of articles.

TABLE 29.—*Relative prices, in gold,* by groups of articles, 1840–1891.*

Year.	General average of prices.								
	Food.	Cloths and clothing.	Fuel and lighting.	Metals and implements.	Lumber and building materials.	Drugs and chemicals.	House furnishing goods.	Miscellaneous.	All articles.
1840	96.6	110.7	395.8	123.5	110.0	145.8	116.4	147.1	116.8
1841	94.4	113.4	208.9	123.7	111.8	141.3	116.4	147.1	115.8
1842	82.9	100.9	202.0	118.7	108.8	131.6	116.4	170.6	107.8
1843	79.3	99.9	187.5	114.7	105.4	121.4	100.3	123.5	101.5
1844	81.6	105.0	119.7	133.3	103.0	119.7	102.3	129.5	101.9
1845	87.3	97.1	239.6	110.8	106.7	121.0	102.3	114.8	102.8
1846	94.6	95.3	143.8	116.9	106.2	123.9	111.0	111.0	106.4
1847	94.7	97.6	110.7	120.6	108.2	112.5	120.3	121.7	106.5
1848	83.5	87.5	106.1	119.7	105.3	113.0	121.7	125.6	101.4
1849	79.0	82.2	100.0	124.9	97.6	111.0	120.5	109.8	98.7
1850	85.5	91.3	102.6	114.8	102.2	123.6	125.6	107.7	102.3
1851	90.6	94.7	97.3	119.2	97.2	125.8	120.0	102.7	105.9
1852	88.7	88.7	93.5	117.7	100.4	111.8	111.9	100.5	102.7
1853	101.2	98.6	101.6	122.8	103.2	107.0	118.7	109.2	109.1
1854	105.9	97.4	106.8	125.6	114.1	110.7	121.2	108.4	112.9
1855	111.8	94.7	121.1	117.8	103.4	129.2	121.2	115.2	113.1
1856	110.4	100.6	126.4	115.3	102.8	135.5	115.5	121.6	113.2
1857	117.5	106.0	113.3	110.4	105.0	126.8	116.8	110.0	112.5
1858	94.6	98.0	111.4	101.3	103.8	116.0	108.7	97.1	101.8
1859	98.8	101.1	98.8	100.1	98.7	104.2	103.2	100.8	100.2
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	95.8	94.9	103.5	102.5	108.9	101.3	96.8	100.7	100.6
1862	107.7	121.1	94.8	114.3	145.6	113.6	87.3	101.2	114.9
1863	91.7	132.0	73.8	96.5	122.1	101.0	84.8	89.0	102.4
1864	106.6	167.7	115.9	115.6	142.3	109.5	105.9	99.3	122.5
1865	100.1	138.4	110.0	88.5	84.2	125.6	83.8	93.8	100.3
1866	124.1	161.7	200.2	122.1	163.4	164.3	132.3	122.1	136.3
1867	121.8	133.7	145.8	119.8	132.8	156.9	118.2	119.9	127.9
1868	118.6	106.0	157.9	108.7	125.8	128.4	97.4	118.5	115.9
1869	120.1	108.8	152.5	104.2	122.3	118.7	89.0	119.7	113.2
1870	126.8	114.9	162.0	105.4	122.3	123.3	100.2	122.6	117.3
1871	152.9	120.4	130.2	110.4	136.8	125.9	116.1	134.4	122.9
1872	122.2	131.1	136.8	117.3	153.0	122.8	112.9	121.6	127.2
1873	115.2	121.5	119.4	115.2	152.5	125.6	96.8	117.5	122.0
1874	118.0	114.8	134.3	108.7	139.0	131.8	98.3	116.5	119.4
1875	116.0	106.8	139.1	104.4	127.7	128.2	84.4	109.2	113.4
1876	109.1	95.3	128.2	96.1	121.7	108.0	77.3	101.2	104.8
1877	113.3	95.9	101.7	94.2	118.5	115.2	74.4	111.3	104.4
1878	105.5	91.9	91.7	90.8	115.2	112.6	73.3	110.2	99.9
1879	97.6	91.1	95.3	88.4	115.1	110.9	68.6	102.1	96.6
1880	107.6	104.5	101.2	96.3	130.9	113.1	85.2	109.8	106.9
1881	110.9	99.9	113.7	91.1	131.3	110.4	77.6	108.8	105.7
1882	118.8	98.7	110.1	91.2	137.5	107.6	78.1	114.6	108.5
1883	118.8	94.8	114.2	87.5	134.3	98.1	77.5	117.3	106.0
1884	108.9	88.9	102.4	81.0	129.5	95.7	76.3	111.9	99.4
1885	98.7	84.8	89.6	77.4	126.6	86.9	70.1	97.5	93.0
1886	99.5	85.1	86.2	75.8	128.5	83.9	68.4	91.3	91.9
1887	104.2	84.7	88.6	74.9	126.5	83.6	66.4	88.6	92.6
1888	109.4	84.7	94.9	74.9	124.8	86.0	66.9	89.3	94.2
1889	111.9	83.6	95.3	72.9	124.0	88.8	70.0	88.8	94.2
1890	104.6	82.4	92.5	73.2	123.7	87.9	69.5	89.7	92.3
1891	103.9	81.1	91.0	74.9	122.3	86.3	70.1	95.1	92.2

* In converting currency prices into gold we have used the value of $100 gold in currency as given for January of each year in the American Almanac for 1878, as follows: 1862, $102.5; 1863, $145.1; 1864, $153.5; 1865, $216.2; 1866, $140.1; 1867, $134.6; 1868, $138.5; 1869, $135.6; 1870, $121.3; 1871, $110.7; 1872, $109.1; 1873, $112.7; 1874, $111.4; 1875, $112.5; 1876, $112.8; 1877, $106.2; and 1878, $101.4.

This table is a modification of Table 22 and agrees with the latter except in the period of currency depreciation (1862–'78). In those years we have reduced the former table to the gold basis by dividing each relative price by the value in currency of the gold dollar in January of each year. An examination of the table shows that the advance in food is not so marked as in the other groups. The highest figures are reached after the close of the war, the maximum being in 1871. Maximum prices in other groups are found in the last year of the war and the years immediately following.

For the total number of articles we have calculated gold prices in Table 30.

TABLE 30.—*Relative prices in each year, 1840–1891, in gold, for all articles, grouped by different methods.*

Year.	All articles simply averaged.	All articles averaged according to importance, certain expenditures being considered uniform.	All articles averaged according to importance, comprising 68.60 per cent of total expenditure.	Year.	All articles simply averaged.	All articles averaged according to importance, certain expenditures being considered uniform.	All articles averaged according to importance, comprising 68.60 per cent of total expenditure.
1840	116.8	98.5	97.7	1866	136.3	114.3	134.0
1841	115.8	98.7	98.1	1867	127.9	107.9	123.2
1842	107.8	93.2	90.1	1868	115.9	108.8	125.6
1843	101.5	89.3	84.3	1869	113.2	100.2	112.3
1844	101.9	89.8	85.0	1870	117.3	107.5	119.0
1845	102.8	92.1	88.2	1871	122.9	112.7	122.9
1846	106.4	96.7	95.2	1872	127.2	112.0	121.4
1847	106.5	96.7	95.2	1873	122.0	106.4	114.5
1848	101.4	92.0	88.3	1874	119.4	108.2	116.6
1849	98.7	88.9	83.5	1875	113.4	106.5	114.6
1850	102.3	92.6	89.2	1876	104.8	102.4	108.7
1851	105.9	99.1	98.6	1877	104.4	103.0	107.0
1852	102.7	98.5	97.9	1878	99.9	101.7	103.2
1853	109.1	103.4	105.0	1879	96.6	96.6	95.0
1854	112.9	103.4	105.0	1880	106.9	103.4	104.9
1855	113.1	106.3	109.2	1881	105.7	105.8	108.4
1856	113.2	108.5	112.3	1882	108.5	106.3	109.1
1857	112.5	109.6	114.0	1883	106.0	104.5	106.6
1858	101.8	109.1	113.2	1884	99.4	101.8	102.6
1859	100.2	102.0	102.9	1885	93.0	95.4	93.3
1860	100.0	100.0	100.0	1886	91.9	95.5	93.4
1861	100.6	95.9	94.1	1887	92.6	96.2	94.5
1862	114.9	100.3	101.6	1888	94.2	97.4	96.2
1863	102.4	84.1	91.1	1889	94.2	99.0	98.5
1864	122.5	96.1	110.7	1890	92.3	95.7	94.7
1865	100.3	88.2	107.4	1891	92.2	96.2	94.4

This table is the same as Table 24, with the exception of the years (1862–1878), which are reduced to the gold basis. It will be seen from this table that maximum prices occurred in 1866, by all the methods of computation. There was a slight decline in the years immediately following. This was succeeded by a rise in prices in 1871 and 1872, after which prices began the downward course which has since characterized their movement.

In Table 31 the facts brought out in the preceding table are given by five-year periods.

TABLE 31.—*Relative prices, in gold, by five-year periods, 1840–1891, for all articles, grouped by different methods.*

Periods.	All articles simply averaged.	All articles averaged according to importance, certain expenditures being considered uniform.	All articles averaged according to importance, comprising 68.60 per cent of total expenditure.
1840–'44	108.8	93.9	91.0
1845–'49	103.2	93.3	90.1
1850–'54	100.0	99.4	99.1
1855–'59	108.2	107.1	110.3
1860–'64	108.1	95.3	99.5
1865–'69	118.7	103.9	120.5
1870–'74	121.8	109.4	118.9
1875–'79	103.8	102.0	105.7
1880–'84	105.3	104.4	106.3
1885–'89	93.2	96.7	95.2
1890–'91	92.3	96.0	94.1

WHOLESALE PRICES OF AGRICULTURAL PRODUCTS.

In Table X of the report are embodied the fruits of a painstaking investigation into the wholesale prices of agricultural products for the period 1840–'91, conducted by the statistical division of the Department of Agriculture. The changes in classifications and the chaotic state of the earlier records have rendered the investigation difficult. The results are stated oftentimes as the range of prices, this being the universal habit in quotations of farm products. In this investigation resort had to be taken to published records, since private ones were inaccessible, and this has necessitated giving the quotations as the range of prices more frequently than in the other investigations. For the purposes of our analysis we have used the mean of the two quotations in all such cases.

Taking, as before, the year 1860 as the basis of our calculations, and expressing other years as percentages in the manner so amply described in connection with wholesale prices of commodities, we have prepared the following table, giving the various series of quotations of Table X reduced to relative prices:

TABLE 32.—*Relative prices of agricultural products, individual quotations.*

[The figures in the headings indicate the pages on which the quotations are tabulated in Table X.]

Year.	2. Barley.	5. Clover seed.	6. Clover seed.	7. Corn.	11. Cotton, upland, middling.	12. Flaxseed.	13. Flaxseed.	14. Flaxseed, rough, American.	15. Hemp, rough.	17. Hides, dry, California.	17. Hides, dry, Rio Grande.	18. Hides, dry, Texas.
1840	83.1	.....	173.3	85.1	83.2	.....	56.8	92.1	88.0	54.5	58.1	81.0
1841	88.3	.....	96.7	103.3	85.5	.....	73.6	90.8	148.0	52.8	62.9	101.9
1842	70.8	.....	100.0	85.1	68.2	58.7	56.4	90.8	80.0	51.7	57.0	73.6
1843	71.4	30.2	80.0	74.9	78.6	.....	68.2	76.2	64.0	.....	58.1	.....
1844	73.4	157.6	125.0	71.3	55.5	.....	.....	83.8	56.0	.....	52.7	73.6
1845	77.3	.....	88.3	83.6	70.5	.....	104.5	86.3	56.0	.....	52.2	71.7
1846	81.2	.....	110.0	.....	85.5	.....	54.5	79.4	50.4	.....	45.7	56.6
1847	90.9	.....	98.3	96.7	107.5	46.8	72.7	85.7	88.0	47.7	51.6	64.2
1848	100.0	115.2	88.3	112.0	62.4	.....	77.3	77.8	92.0	28.4	36.6	45.3
1849	81.2	.....	83.3	93.8	97.1	47.7	100.1	86.0	108.0	39.2	47.3	61.3
1850	101.9	.....	86.7	95.3	121.5	.....	113.6	100.0	80.0	51.1	59.7	76.4
1851	103.9	.....	118.3	90.9	84.4	.....	90.9	84.1	72.0	.....	59.1	79.2
1852	98.7	.....	120.0	102.5	93.6	.....	81.8	87.3	76.0	.....	65.6	77.9
1853	109.1	106.1	161.7	120.4	98.8	85.1	113.6	90.5	.....	.....	76.3	86.8
1854	151.0	122.7	110.0	109.8	86.1	.....	136.4	105.6	120.0	57.4	75.3	79.2
1855	162.3	130.3	140.0	125.5	91.3	106.4	145.5	117.5	124.0	75.0	101.1	111.3
1856	161.0	178.8	181.7	99.6	113.3	117.0	163.6	139.7	144.0	100.0	116.1	158.5
1857	116.9	155.2	196.7	102.2	143.4	.....	90.9	90.5	100.0	115.9	133.3	135.8
1858	142.9	127.3	103.3	104.0	123.7	106.4	127.3	100.0	88.0	101.1	110.8	124.5
1859	111.7	133.3	106.7	133.8	106.4	.....	100.0	97.8	100.0	104.5	107.5	128.3
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	.....	100.0	100.0	100.0
1861	84.4	97.0	101.7	79.3	198.8	76.6	90.9	99.0	56.0	100.0	96.8	150.9
1862	77.3	104.2	120.0	86.5	522.5	123.4	113.6	126.0	84.0	115.9	119.4	166.0
1863	168.8	124.2	121.7	126.2	781.5	240.4	181.8	166.7	108.0	133.0	123.7	.....
1864	240.3	193.9	158.3	229.8	1119.1	204.3	254.5	201.6	.....	120.5	116.1	181.1
1865	165.6	312.1	340.0	132.4	453.2	234.0	245.5	192.1	188.0	85.2	75.8	120.8
1866	181.8	130.3	130.0	138.2	365.3	.....	254.5	211.1	240.0	85.2	78.5	90.6
1867	191.6	236.4	216.7	192.7	198.8	193.6	200.0	181.7	.....	92.0	88.2	160.4
1868	250.0	151.5	156.7	164.4	247.4	200.0	236.4	179.4	160.0	86.4	88.2	113.2
1869	178.6	215.2	203.3	141.1	254.3	191.5	181.8	155.6	156.0	86.4	80.3	158.5
1870	142.9	221.2	176.7	126.5	156.1	.....	163.6	146.0	176.0	98.9	99.5	154.7
1871	120.1	139.4	130.0	110.5	182.7	136.2	140.9	131.7	120.0	103.4	107.5	135.8
1872	136.4	121.2	126.7	93.8	173.4	140.4	136.4	129.5	84.0	105.7	108.5	150.9
1873	178.6	115.2	113.3	97.1	169.9	151.1	140.9	138.1	96.0	112.5	111.8	173.6
1874	152.6	143.0	136.7	139.3	143.4	148.9	159.1	130.2	128.0	110.2	108.6	167.9
1875	149.4	152.7	150.0	96.4	121.4	114.9	127.3	109.5	116.0	96.6	90.3	143.4
1876	128.2	227.9	223.3	82.5	101.7	102.1	100.0	91.4	88.0	80.7	76.3	126.4
1877	110.4	200.0	201.7	84.7	102.9	109.8	104.5	91.7	100.0	100.0	92.5	143.4
1878	146.1	99.4	96.7	70.7	99.4	110.6	109.1	115.9	76.0	109.1	100.0	154.7
1879	129.9	86.1	83.3	76.4	96.0	103.4	103.6	86.5	80.0	96.6	89.2	126.4
1880	116.9	87.3	93.3	75.4	106.4	104.7	100.0	88.9	104.0	106.8	100.0	143.4
1881	149.4	109.1	115.0	109.3	109.2	120.9	100.0	93.7	96.0	102.3	93.5	132.1
1882	122.1	106.7	108.3	100.7	105.8	100.4	100.0	82.5	84.0	110.2	98.9	139.6
1883	.....	187.9	186.7	90.2	98.3	111.5	101.8	107.9	88.0	96.6	90.3	118.9
1884	110.4	143.0	136.7	89.5	93.6	112.8	116.4	92.1	88.0	102.3	94.6	124.5
1885	100.0	118.8	110.0	71.5	93.1	103.0	104.5	81.3	140.0	95.5	90.3	118.9
1886	103.9	150.3	130.0	68.1	87.9	88.5	90.9	.....	108.0	89.8	80.6	111.3
1887	102.6	94.5	100.0	75.1	87.9	89.4	86.4	.....	92.0	79.5	74.2	107.5
1888	110.4	90.9	90.0	75.1	96.5	114.9	109.1	.....	76.0	81.8	74.2	105.7
1889	89.3	115.2	115.0	57.8	100.6	107.9	113.6	.....	96.0	68.2	57.0	75.5
1890	101.0	75.2	81.7	81.7	96.0	127.2	127.3	.....	104.0	68.2	54.8	81.0
1891	92.9	107.9	101.7	89.1	80.3	79.1	86.4	.....	92.0	60.2	57.0	83.0

TABLE 32.—*Relative prices of agricultural products, individual quotations*—Continued.

The figures in the headings indicate the pages on which the quotations are tabulated in Table X.]

Year.	19. Hides, dry, western.	20. Hides, green.	21. Hides, green, salted.	22. Hides, wet, salted, California.	22. Hides, wet, city salted, slaughter.	23. Hides, wet, salted, Rio Grande.	24. Meat, beeves, good to choice, live weight.	25. Meat, beeves, good to prime, live weight.	26. Meat, beeves, live weight.	27. Meat, hogs, fair to good, live packing, weight.	28. Meat, hogs, good to prime, live weight.
1840	.....	156.5	.....	.....	.....	.....	.....	65.8	.....	.....	50.6
1841	.....	156.5	.....	.....	.....	.....	.....	60.5	.....	54.8	.....
1842	.....	121.7	50.0	.....	.....	.....	.....	57.9	.....	.....	53.3
1843	.....	.....	.....	.....	.....	.....	69.2	63.2	.....	43.5	.....
1844	.....	.....	.....	.....	.....	.....	.....	57.9	.....	.....	59.8
1845	.....	87.0	.....	.....	.....	.....	107.7	57.9	.....	69.6	52.3
1846	.....	87.0	40.0	.....	.....	.....	107.7	71.1	.....	.....	61.7
1847	.....	.....	36.7	.....	.....	.....	130.8	76.3	89.6	99.6	82.2
1848	.....	73.9	43.3	.....	.....	.....	.....	60.5	113.2	60.9	70.1
1849	.....	73.9	33.3	.....	.....	.....	.....	81.2	84.[illegible]	39.1	67.3
1850	.....	69.6	.....	.....	.....	.....	115.4	78.9	.....	60.9	62.6
1851	.....	73.9	.....	.....	.....	.....	161.5	76.3	.....	63.5	72.9
1852	.....	73.9	103.3	.....	.....	63.5	161.5	89.5	150.9	98.3	84.1
1853	.....	.....	58.3	.....	.....	81.3	133.8	105.3	103.8	104.3	80.4
1854	.....	104.3	66.7	.....	.....	75.0	161.5	97.4	110.8	67.0	80.4
1855	.....	95.7	86.7	.....	.....	104.2	123.1	105.3	106.0	104.3	100.9
1856	.....	143.5	93.3	.....	.....	116.7	115.4	110.5	84.9	88.7	95.3
1857	.....	108.7	60.0	.....	105.9	125.0	123.1	115.8	103.8	107.0	102.8
1858	.....	117.4	103.3	.....	108.8	97.9	100.0	94.7	94.3	77.4	71.0
1859	.....	117.4	90.0	.....	114.7	100.0	107.7	100.0	89.6	80.0	84.1
1860	.....	100.0	100.0	.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	100.0	66.7	100.0	91.2	102.1	100.0	92.1	89.6	53.0	58.9
1862	111.1	117.4	100.0	113.6	100.0	120.8	84.6	89.5	100.0	54.8	62.6
1863	.....	160.9	136.7	129.5	108.8	120.8	107.7	105.3	117.9	49.6	74.8
1864	129.2	187.0	116.7	120.5	141.2	118.8	215.4	182.3	179.2	204.3	168.2
1865	59.7	139.1	118.3	84.1	135.3	75.0	184.6	194.7	259.4	221.7	215.0
1866	73.6	156.5	116.7	86.4	147.1	81.3	215.4	173.7	217.0	169.6	162.6
1867	63.9	.....	128.3	100.0	152.9	93.8	215.4	157.9	150.9	113.0	107.5
1868	77.8	195.7	166.7	100.0	151.5	93.8	153.8	171.1	150.9	152.2	148.6
1869	108.3	208.7	110.0	102.3	148.5	91.7	161.5	163.2	212.3	156.5	155.1
1870	102.8	173.9	103.3	100.0	135.3	103.1	161.5	165.8	155.7	133.0	135.5
1871	105.6	173.9	146.7	102.3	139.7	106.8	126.8	126.3	176.4	76.5	77.6
1872	.....	200.0	153.3	106.8	145.6	104.2	134.5	124.9	207.5	82.6	78.5
1873	122.2	187.0	106.7	109.1	130.9	100.0	92.3	119.7	200.9	73.9	80.4
1874	105.6	152.2	113.3	102.3	125.0	104.2	127.7	121.1	193.4	113.0	93.5
1875	106.9	147.8	110.0	90.9	114.7	89.6	135.4	121.7	203.8	137.4	129.0
1876	88.9	156.5	103.3	79.5	102.9	75.0	104.6	106.6	174.5	95.7	99.1
1877	100.0	165.2	116.7	95.5	123.5	91.7	123.1	111.8	179.2	91.3	82.2
1878	105.6	130.4	96.7	97.7	114.7	97.9	104.6	86.8	150.9	61.7	59.8
1879	94.4	156.5	113.3	93.2	127.9	90.6	107.7	98.7	167.9	64.3	61.7
1880	102.8	187.0	126.7	102.3	114.7	102.1	116.9	93.4	174.5	86.1	81.1
1881	97.2	178.3	113.3	100.0	126.5	97.9	133.8	119.7	212.3	112.2	99.4
1882	100.0	134.8	116.7	102.3	135.3	93.8	136.9	128.9	240.6	141.7	127.1
1883	93.1	130.4	106.7	86.4	111.8	93.8	136.9	118.4	207.5	81.7	82.2
1884	94.4	130.4	110.0	100.0	107.4	87.5	136.9	117.1	226.4	88.7	78.5
1885	88.9	143.5	106.7	95.5	111.8	89.6	123.1	100.6	184.9	67.0	69.5
1886	86.1	130.4	100.0	93.2	114.7	87.5	115.4	103.9	167.9	73.0	76.6
1887	83.3	156.5	96.7	.....	105.9	83.3	115.4	97.7	160.4	81.7	80.7
1888	66.7	121.7	95.0	.....	100.0	75.0	126.2	110.0	185.8	105.2	96.4
1889	52.8	117.4	66.7	.....	94.1	66.7	100.0	87.4	146.2	75.7	73.6
1890	58.3	113.0	86.7	.....	105.9	70.8	112.3	92.3	158.5	73.0	66.9
1891	55.6	87.0	65.0	68.2	91.2	62.5	123.1	106.2	184.9	80.0	78.5

TABLE 32.—*Relative prices of agricultural products, individual quotations*—Continued.

[The figures in the headings indicate the pages on which the quotations are tabulated in Table X.]

Year.	31. Meat, sheep, good to choice, live weight.	31. Meat, sheep, good to prime, live weight.	32. Oats.	35. Rye.	38. Timothy seed.	39. Timothy seed.	39. Timothy seed.	45. Tobacco, leaf, Kentucky.	52. Tobacco, seed leaf, cigar, binders.	53. Tobacco, seed leaf, cigar, fillers.	53. Tobacco, seed leaf, cigar, smokers.
1840	.....	.....	102.0	79.6	.....	.....	82.8	94.1	.....	.....	.....
1841	.....	.....	126.8	89.2	.....	73.8	122.8	91.2	.....	.....	.....
1842	.....	.....	70.6	75.8	46.5	73.8	78.4	55.9	.....	.....	.....
1843	40.0	.....	69.9	80.3	.....	.....	88.4	58.8	.....	.....	.....
1844	.....	.....	86.3	84.7	.....	.....	68.4	51.5	.....	.....	.....
1845	.....	.....	105.9	87.3	.....	.....	81.6	60.3	.....	.....	.....
1846	.....	.....	100.7	100.6	.....	67.5	85.6	57.4	.....	.....	.....
1847	46.0	.....	142.5	108.3	52.3	116.0	92.8	69.1	.....	.....	.....
1848	.....	.....	89.5	87.9	.....	105.5	97.2	61.8	.....	.....	.....
1849	.....	.....	94.1	76.4	.....	105.5	108.4	79.4	.....	.....	.....
1850	.....	.....	111.1	86.9	.....	137.1	102.8	102.9	.....	.....	.....
1851	90.0	.....	104.6	86.9	.....	137.1	97.2	77.9	.....	.....	.....
1852	80.0	.....	118.3	109.6	104.7	84.4	108.4	82.4	.....	.....	.....
1853	100.0	.....	127.5	115.3	.....	78.1	94.4	92.6	84.6	81.8	120.0
1854	120.0	.....	132.7	152.9	122.1	94.9	160.0	94.1	.....	.....	.....
1855	120.0	.....	117.6	147.8	107.6	131.6	137.6	82.4	.....	.....	.....
1856	.....	.....	117.6	108.3	119.2	137.1	145.0	100.0	123.1	127.3	160.0
1857	.....	.....	117.6	89.2	101.7	121.1	145.0	152.9	.....	.....	.....
1858	.....	.....	134.6	101.9	69.8	69.6	95.0	82.4	123.1	109.1	160.0
1859	66.0	.....	108.5	103.8	98.0	100.0	94.4	102.9	100.0	100.0	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	.....	.....	.....
1861	80.0	90.5	90.2	87.3	65.1	63.3	75.0	123.5	.....	.....	.....
1862	150.0	104.8	150.3	80.3	68.6	69.6	77.5	220.6	200.0	218.2	260.0
1863	174.8	100.0	183.7	138.5	104.7	107.6	98.0	210.3	169.2	163.6	220.0
1864	240.0	152.4	227.5	184.7	186.0	248.9	200.0	314.7	153.8	122.7	180.0
1865	220.0	128.6	156.9	127.4	165.1	168.8	190.0	294.1	76.9	63.6	100.0
1866	190.0	111.9	149.0	159.2	130.7	139.2	132.5	229.4	61.5	54.5	70.0
1867	170.0	109.5	198.7	204.5	99.3	111.8	117.0	155.9	69.2	45.5	60.0
1868	110.0	121.4	189.5	191.1	123.3	132.9	125.0	155.9	123.1	100.0	120.0
1869	144.0	109.5	167.3	148.4	145.3	168.8	185.0	141.2	107.7	109.1	120.0
1870	140.0	109.5	139.9	114.6	190.7	211.0	235.0	120.6	92.3	90.9	120.0
1871	130.0	109.5	138.6	118.5	116.3	130.8	125.0	117.6	146.2	150.1	220.0
1872	192.0	121.4	115.0	108.3	130.2	132.9	155.0	132.4	153.8	163.6	220.0
1873	140.0	114.3	136.6	113.4	114.0	128.7	130.0	120.6	200.0	200.0	280.0
1874	180.0	114.3	158.8	119.7	120.9	109.7	113.0	185.3	146.2	154.5	180.0
1875	170.0	123.8	117.6	114.6	104.7	101.3	115.0	170.6	130.8	136.4	160.0
1876	160.0	114.3	112.4	104.5	81.4	73.8	75.0	147.1	100.0	118.2	140.0
1877	160.0	102.4	88.9	94.9	60.5	57.0	58.5	111.8	107.7	100.0	90.0
1878	140.0	92.9	75.8	82.2	51.2	50.6	120.0	97.1	100.0	100.0	130.0
1879	150.0	92.9	94.1	101.9	88.4	84.4	105.0	.....	107.7	109.1	130.0
1880	182.0	92.9	110.1	122.3	106.0	99.2	110.0	97.1	123.1	100.0	140.0
1881	198.0	100.0	119.6	140.8	125.6	122.4	117.0	132.4	115.4	90.9	130.0
1882	170.0	104.8	103.4	101.3	74.4	78.1	99.0	120.6	107.7	81.8	140.0
1883	158.0	95.2	92.0	92.4	58.1	54.9	56.0	117.6	123.1	90.9	130.0
1884	160.0	92.9	81.5	88.2	58.6	57.0	65.0	120.6	.....	.....	.....
1885	146.0	90.5	86.6	79.0	77.2	71.7	80.0	116.2	107.7	81.8	130.0
1886	158.0	91.4	93.5	70.1	84.2	78.1	87.0	111.8	76.9	63.6	100.0
1887	156.0	87.1	92.6	70.1	103.7	97.0	90.0	114.7	115.4	81.8	90.0
1888	166.0	85.7	78.1	83.4	67.4	67.5	90.0	117.6	92.3	90.9	80.0
1889	188.0	92.9	68.3	63.7	58.6	54.9	62.0	111.8	107.7	90.9	80.0
1890	178.0	100.0	114.7	87.9	57.7	54.9	64.0	111.8	115.4	90.9	100.0
1891	178.0	97.6	86.6	123.6	52.1	50.6	.....	.....	146.2	168.2	210.0

TABLE 32.—*Relative prices of agricultural products, individual quotations*—Concluded.

[The figures in the headings indicate the pages on which the quotations are tabulated in Table X.]

Year.	54. Tobacco, seed leaf, cigar wrappers, average.	55. Tobacco, seed leaf, cigar wrappers, common.	55. Tobacco, seed leaf, cigar wrappers, fine.	56. Tobacco, seed leaf, cigar wrappers, good.	57. Tobacco, wrappers, Connecticut.	58. Tobacco, wrappers, Ohio.	58. Tobacco, wrappers, Pennsylvania.	60. Wheat, No. 2, spring.	61. Wheat, No. 2, winter.	62. Wheat, spring.	63. Wheat, winter.
1840	.....	.....	.....	.....	.....	.....	.....	43.1	.....	88.1	87.2
1841	.....	.....	.....	.....	.....	.....	.....	39.7	54.6	77.9	74.1
1842	.....	.....	.....	.....	.....	.....	.....	.....	.....	102.5	88.7
1843	.....	.....	.....	.....	.....	.....	.....	41.2	42.7	75.8	65.6
1844	.....	.....	.....	.....	.....	.....	.....	55.4	.....	82.8	72.3
1845	.....	.....	.....	.....	.....	.....	.....	.....	65.1	80.7	67.7
1846	.....	.....	.....	.....	.....	.....	.....	.....	.....	92.2	92.2
1847	.....	.....	.....	.....	.....	.....	.....	.....	51.4	112.7	80.1
1848	.....	.....	.....	.....	.....	.....	.....	77.0	75.7	104.1	96.5
1849	.....	.....	.....	.....	.....	.....	.....	.....	62.8	82.8	89.4
1850	.....	.....	.....	.....	.....	.....	.....	57.8	71.1	86.9	89.7
1851	.....	.....	.....	.....	116.1	.....	115.4	52.9	61.9	79.9	86.2
1852	.....	.....	.....	.....	64.5	.....	.....	36.3	52.8	88.5	79.1
1853	68.6	73.3	51.8	59.1	64.5	.....	71.2	58.8	75.2	99.2	93.6
1854	.....	.....	.....	.....	74.2	.....	67.3	98.0	101.4	153.7	134.8
1855	.....	.....	.....	.....	69.4	.....	69.2	137.3	115.6	187.7	168.8
1856	132.4	133.3	133.9	131.8	95.2	.....	103.8	115.2	133.0	139.8	136.9
1857	.....	.....	.....	.....	187.1	178.8	178.8	84.3	101.4	129.5	112.8
1858	141.5	173.3	135.7	150.0	141.9	130.8	130.8	61.0	64.2	94.3	85.1
1859	100.0	100.0	100.0	100.0	116.1	100.0	88.5	83.3	97.7	113.1	92.2
1860	.....	.....	.....	.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	.....	.....	.....	.....	80.6	88.5	88.5	77.0	.....	103.5	96.5
1862	196.8	206.7	185.7	177.3	129.0	130.8	130.8	70.6	71.6	103.3	101.4
1863	162.8	180.0	150.0	150.0	209.7	173.1	173.1	104.9	93.6	100.8	105.3
1864	149.4	153.3	153.6	145.5	290.3	269.2	269.2	109.3	109.2	132.8	114.2
1865	103.2	100.0	128.6	109.1	177.4	115.4	115.4	96.1	145.0	139.8	181.2
1866	82.4	80.0	100.0	90.9	185.5	115.4	115.4	88.7	.....	113.5	145.4
1867	105.4	113.3	135.7	122.7	209.7	261.5	238.5	217.4	.....	202.9	219.9
1868	160.7	180.0	185.7	177.3	258.1	.....	203.8	187.7	.....	200.0	191.5
1869	133.0	120.0	160.7	136.4	258.1	280.8	280.8	107.1	.....	118.9	131.2
1870	117.0	133.3	125.0	122.7	290.3	219.2	307.7	74.8	.....	88.1	91.1
1871	169.7	180.0	178.6	159.1	193.5	269.2	269.2	124.3	.....	125.4	105.0
1872	159.0	156.7	160.7	145.5	161.3	269.2	269.2	118.1	.....	125.2	112.1
1873	189.4	180.0	185.7	168.2	216.1	315.4	315.4	117.4	.....	136.9	136.5
1874	171.3	220.0	160.7	172.7	145.2	223.1	223.1	119.4	.....	127.0	118.1
1875	161.7	206.7	157.1	168.2	112.9	.....	203.8	94.6	.....	98.0	91.1
1876	150.1	186.7	160.7	159.1	145.2	.....	150.0	101.0	.....	105.3	97.5
1877	146.2	186.7	160.7	159.1	138.7	.....	288.5	124.0	117.4	122.1	105.3
1878	140.5	146.7	160.7	159.1	153.2	.....	196.2	109.8	110.1	105.7	100.7
1879	119.2	146.7	114.3	118.2	.....	.....	.....	87.3	78.9	93.6	77.0
1880	129.8	153.3	125.0	136.4	153.2	153.8	203.8	111.8	120.2	104.9	112.2
1881	114.9	133.3	114.3	113.6	193.5	107.7	242.3	100.0	88.5	100.8	83.8
1882	141.5	146.7	175.0	145.5	141.9	92.3	259.6	132.8	117.4	114.3	101.2
1883	129.4	133.3	150.0	127.3	193.5	123.1	211.5	105.6	87.2	84.0	78.2
1884	.....	.....	.....	.....	193.5	153.8	142.3	83.8	89.9	80.8	79.4
1885	115.5	126.7	121.4	118.2	161.3	.....	144.2	76.0	71.4	74.2	62.8
1886	85.1	86.7	96.4	81.8	161.3	.....	142.2	74.8	80.7	74.8	65.6
1887	118.6	140.0	125.0	122.7	162.9	.....	153.8	78.4	73.6	75.8	66.4
1888	110.6	106.7	92.9	100.0	162.9	.....	153.8	74.1	75.2	69.4	65.4
1889	123.4	133.3	142.9	127.3	162.9	115.4	148.1	99.0	91.7	79.9	73.4
1890	118.1	106.7	142.9	113.6	162.9	115.4	250.0	76.6	72.0	73.8	60.9
1891	125.5	126.7	103.6	100.0	.....	.....	.....	101.0	85.6	91.0	73.2

The preceding table includes several quotations for the same product, and this multiplicity of returns hinders a rapid comparison of results. In order to avoid this difficulty we have obtained the average relative price on each commodity and united our results in Table 33.

TABLE 33.—*Relative prices of agricultural products, individual products.*

Year.	Barley.	Clover seed.	Corn.	Cotton, uplaud, middling.	Flax-seed.	Hemp, rough.	Hides.	Meat, beeves.
1840	83.1	173.3	85.1	83.2	74.5	88.0	88.0	65.8
1841	88.3	96.7	103.3	85.5	82.2	148.0	93.5	60.5
1842	70.8	100.0	85.1	68.2	68.6	80.0	70.8	57.9
1843	71.4	55.2	74.9	78.6	72.2	64.0	58.1	66.2
1844	73.4	141.3	71.3	55.5	83.8	56.0	63.2	57.9
1845	77.3	88.3	83.6	70.5	95.4	56.0	70.3	82.8
1846	81.2	110.0	.....	85.5	67.0	50.4	57.3	89.4
1847	90.9	98.3	96.7	107.5	68.4	88.0	50.1	96.9
1848	100.0	101.8	112.0	62.4	77.6	92.0	45.5	86.9
1849	81.2	83.3	93.8	97.1	80.9	108.0	51.0	83.1
1850	101.9	86.7	95.3	129.5	166.8	80.0	64.2	97.2
1851	103.9	118.3	90.9	84.4	87.5	72.0	70.7	118.9
1852	98.7	120.0	102.5	93.6	84.6	76.0	76.8	134.0
1853	109.1	133.9	120.4	98.8	96.4	.....	75.7	114.3
1854	151.0	116.4	109.8	86.1	121.0	120.0	76.3	122.2
1855	162.3	135.2	125.5	91.3	123.1	124.0	95.7	111.5
1856	161.0	180.3	99.6	113.3	140.1	144.0	121.4	103.5
1857	116.9	176.0	102.2	143.4	90.7	100.0	112.1	114.2
1858	142.9	115.3	104.0	123.7	111.2	88.0	109.1	96.3
1859	111.7	120.0	133.8	106.4	98.9	100.0	108.9	99.1
1860	100.0	100.0	100.0	100.0	100.0	.....	100.0	100.0
1861	84.4	99.4	79.3	198.8	88.8	56.0	100.9	93.9
1862	77.3	112.1	86.5	522.5	121.0	84.0	118.2	91.4
1863	168.8	123.0	126.2	781.5	196.3	108.0	130.5	110.3
1864	240.3	176.1	229.8	1,119.1	220.1	.....	136.8	192.3
1865	165.6	326.1	132.4	453.2	223.9	188.0	99.3	212.9
1866	181.8	130.0	138.2	365.3	232.8	240.0	101.8	302.0
1867	191.6	226.6	192.7	198.8	191.8	.....	109.9	174.7
1868	250.0	154.1	164.4	247.4	205.3	160.0	119.3	158.6
1869	178.6	209.3	141.1	254.3	176.3	156.0	12'.7	179.0
1870	142.9	199.0	126.5	156.1	154.8	176.0	119.1	161.0
1871	120.1	134.7	110.5	182.7	136.3	120.0	124.6	143.2
1872	136.4	124.0	93.8	173.4	135.4	84.0	134.1	157.0
1873	178.6	114.3	97.1	169.9	143.4	96.0	128.2	137.6
1874	152.6	139.9	139.3	143.4	146.1	128.0	121.0	147.4
1875	149.4	151.4	96.4	121.4	117.2	116.0	110.0	154.3
1876	128.2	225.6	82.5	101.7	97.8	88.0	98.8	128.6
1877	110.4	200.9	84.7	102.9	102.0	100.0	114.3	118.0
1878	146.1	98.1	70.7	99.4	111.9	76.0	111.9	114.1
1879	129.9	84.7	76.4	96.0	97.8	80.0	109.8	124.8
1880	116.9	90.3	75.4	100.4	97.9	104.0	120.6	128.3
1881	149.4	112.1	109.3	109.2	104.9	96.0	115.7	155.3
1882	122.1	107.5	100.7	105.8	94.3	84.0	114.6	168.8
1883	.....	187.3	90.2	98.3	107.1	88.0	103.1	154.3
1884	110.4	139.9	89.5	93.6	107.1	88.0	105.7	160.1
1885	100.0	114.4	71.5	93.1	96.3	140.0	104.5	136.2
1886	103.9	140.2	68.1	87.9	89.7	108.0	99.3	129.1
1887	102.6	97.3	75.1	87.9	87.9	92.0	98.4	124.5
1888	110.4	90.5	75.1	96.5	112.0	76.0	90.0	140.7
1889	89.3	115.1	57.8	100.6	110.8	96.0	74.8	111.2
1890	101.0	78.5	81.7	96.0	127.3	104.0	80.1	121.9
1891	92.9	104.8	89.1	80.3	82.8	92.0	70.0	138.1

TABLE 33.—*Relative prices of agricultural products, individual products*—Concluded.

Year.	Meat, hogs.	Meat, sheep.	Oats.	Rye.	Timothy seed.	Tobacco.	Wheat.	General average.
1840	50.5	.....	102.0	79.6	82.8	94.1	72.8	87.3
1841	54.8	.....	126.8	89.2	98.3	91.2	61.6	91.4
1842	53.3	.....	70.6	75.8	66.2	55.9	95.6	72.8	
843	43.5	40.0	69.9	80.3	88.4	58.8	56.3	65.2
844	59.8	.....	86.3	84.7	68.4	51.5	70.2	73.1
1845	61.0	.....	105.9	87.3	81.6	60.3	71.2	78.0
1846	61.7	.....	100.7	100.6	76.6	57.4	92.2	79.2
1847	75.9	46.0	142.5	108.3	87.0	69.1	81.4	100.6
1848	65.5	.....	89.5	87.9	101.4	61.8	88.3	83.8
1849	53.2	.....	94.1	76.4	107.0	79.4	78.3	83.3
1850	61.8	.....	111.1	86.9	120.0	102.9	76.4	94.3
1851	68.2	90.0	104.6	86.9	117.2	103.1	70.2	92.5
1852	91.2	80.0	118.3	109.6	99.2	73.5	64.2	94.8
1853	92.4	100.0	127.5	115.3	86.3	76.8	81.7	102.0
1854	75.7	120.0	132.7	152.9	125.7	78.5	122.0	114.0
1855	102.6	120.0	117.6	147.8	125.6	73.7	152.4	120.6
1856	92.0	.....	117.6	108.3	133.8	124.1	131.2	126.4
1857	101.9	.....	117.6	89.2	122.6	171.4	107.0	119.4
1858	74.2	.....	134.6	101.9	78.1	134.4	76.2	106.4
1859	82.1	66.0	108.5	103.8	97.5	100.7	90.6	102.3
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	56.0	85.3	90.2	87.3	67.8	95.3	92.3	91.7
1862	58.7	127.4	150.3	80.3	71.9	186.9	86.7	131.7
1863	61.7	137.4	183.7	138.5	103.4	178.3	101.2	176.6
1864	186.3	196.2	227.5	184.7	211.6	240.2	116.4	259.8
1865	218.4	174.3	156.9	127.4	174.6	125.8	140.5	194.6
1866	166.1	151.0	149.0	159.2	131.1	107.7	115.9	171.7
1867	110.3	139.8	198.7	204.5	209.4	137.9	213.4	171.4
1868	150.4	115.7	189.5	191.1	127.1	166.5	193.0	172.8
1869	155.8	126.8	167.3	148.4	133.0	168.0	119.1	162.4
1870	134.3	124.8	139.9	114.6	212.2	158.1	84.7	146.9
1871	77.1	119.8	138.6	118.5	124.0	187.5	118.2	130.4
1872	80.6	156.7	115.0	108.3	139.4	181.0	118.5	129.2
1873	77.2	127.2	136.6	113.4	124.2	215.5	130.3	132.6
1874	103.3	147.2	158.8	119.7	114.5	180.2	121.5	137.5
1875	133.2	146.9	117.6	114.6	107.0	160.8	91.6	126.1
1876	97.4	137.2	112.4	104.5	76.7	145.7	101.3	115.1
1877	86.8	131.2	88.9	94.9	58.7	148.9	117.2	110.7
1878	60.8	116.5	75.8	82.2	73.9	137.4	100.6	98.8
1879	63.0	121.5	94.1	101.9	92.6	119.3	84.2	98.4
1880	83.6	137.5	110.1	122.3	105.1	137.8	112.3	100.9
1881	105.8	149.0	119.6	140.8	121.7	134.4	93.3	121.1
1882	134.4	137.4	103.4	101.3	83.8	141.1	116.4	114.4
1883	82.0	126.6	92.0	92.4	56.3	138.2	88.8	100.3
1884	83.6	120.5	81.5	88.2	60.2	152.6	83.5	104.7
1885	68.3	118.3	86.6	79.0	76.3	122.3	71.1	93.9
1886	74.8	121.7	93.5	70.1	83.1	100.6	74.0	96.5
1887	81.2	121.6	92.6	70.1	96.9	122.5	73.6	94.9
1888	100.8	125.9	78.1	83.4	75.0	110.8	71.0	95.7
1889	74.7	140.5	68.3	63.7	58.5	122.2	86.0	91.3
1890	70.0	139.0	114.7	87.9	58.9	129.8	70.8	97.4
1891	79.3	137.8	86.6	123.6	51.4	140.0	87.7	97.1

The table includes a final column containing the average of the quotations, giving each an equal importance in the result. Of the fifteen articles on the list the prices have increased since 1860 in five cases, while prices have fallen in the remaining cases. The range of relative prices is from 51.4 for timothy seed to 140 for tobacco. On the whole, measured by the system here adopted, prices stand somewhat below those of 1860, the average being 97.1. An omission of the comparatively unimportant prices for clover seed, timothy seed, flaxseed, and hemp, in the formation of the average would bring about a change of 5 per cent. The average of the remaining eleven articles is 102.1.

But this does not give the true result. An average of all the articles except hides, seeds, clover and timothy and flaxseed, on the basis of the production of those articles in 1880, gives for 1891 the result 98.4. Whatever method be applied, it is clear that the prices of these farm products are to-day about where they were in 1860. This confirms what has been previously said about the price of food in 1891 as compared with 1860.

If we make our comparison with 1840, we shall find that of fourteen articles represented in 1840, prices were lower than in 1891 in ten cases, and higher in but four. These four are oats, clover seed, timothy seed, and hides. The general average assigning each article an equal weight was 87.3 in 1840, and 97.1 in 1891. Prices have advanced something over 10 per cent since 1840.

If we consider the course of these prices as portrayed in the columns of Table 33 we shall find much fluctuation in prices. In nearly all the important articles low prices ruled in the forties, while in the fifties an advance in price took place which culminated in 1855–'56 and subsided again towards 1860. The level of 1855 and 1856 is in some instances high above that of 1860. In 1855 barley reached 162.3, corn 125.5, oats 117.6, rye 147.8, and wheat 152.4. There is a falling off of prices in 1861, which in the main continues, except for cotton, until 1863, when prices move briskly upward. After 1875 we note fewer cases where prices are very much in advance of 1860.

If we turn from the individual quotations to the average, we shall find that before 1853 but a single year (1847) exceeds the average of 1860, and here the excess is less than 1 per cent. After 1853 prices average higher that in 1860, although the excess is slight in 1858 and 1859. On the other hand, 1861 stands at 91.7. With the war and the paper currency, prices rise rapidly, reaching 259.8 in 1864, when cotton had advanced tenfold in price. After this date, the average falls until it is lower than the level of 1860 in 1878 and 1879, when it stands at 98.8 and 98.4. In the years which follow the average again rises, but since 1885 it has been permanently below the 1860 level.

This method of following the course of prices should be supplemented by a more exact approximation. Since 1860, at least, we are able to approximate the importance of the main products and give to each a proportionate influence in the result.

In Table 34 we give quantities of certain staple products with their values at census periods.

TABLE 34.—*Products of agriculture.*

[In this statement the quantities are as reported by the Censuses of 1860, 1870, and 1880, and refer to the previous year, the values as fixed after investigation by the statistician of the Department of Agriculture.]

Article.	Quantities.			Values.		
	1860.	1870.	1880.	1860.	1870.	1880.
Barley.....bush..	15,825,898	29,761,305	43,997,495	$8,704,244	$24,285,225	$29,202,333
Corn.....do....	838,792,740	760,944,549	1,754,591,676	360,680,878	572,991,245	694,818,304
Cotton.....pounds..	2,274,372,309	.....	2,771,797,156	211,516,625	303,600,000*	271,636,121
Hemp.....tons..	74,493	12,746	5,025	14,153,670	2,485,470	1,105,000
Oats.....bush..	172,643,185	282,107,157	407,858,999	43,160,796	134,283,007	146,829,240
Meats†	.....	.....	.....	300,000,000	515,000,000	500,000,000
Rye.....bush..	21,101,380	16,918,795	19,831,595	10,972,718	16,428,150	14,992,686
Tobacco....pounds..	434,209,461	262,735,341	472,661,157	21,710,473	30,740,035	38,758,215
Wheat.....bush..	173,104,924	287,745,626	459,483,137	124,635,545	270,768,634	486,968,463

*The value of cotton is estimated from the cotton movement in 1870.
†The value of meat is estimated from the reports of farms, etc.

The values have been calculated by the statistical division of the Department of Agriculture and represent farm values. These figures enable us to ascertain the proportion of the articles named to each other. These proportions do not greatly change from census to census, and we may therefore apply them to the intervening years without

danger of serious error. For the same reason the figures for 1880 may be applied, without vitiating the result, to all the years which follow. It need not be insisted upon that the proportionate importance of these products in 1880 more nearly approximates that of 1891 than does an equal importance for each. For the years 1865–'69 and 1875–'79 we have used the average of the preceding and succeeding censuses. In this way the figures of Table 34, giving the value of certain products, furnish a system of weights to be attached to each quotation in ascertaining the true average price. From 1860–'65 articles are weighted in the proportions of their production by the census of 1860; from 1865–'69 by the proportion of the mean production in 1860 and 1870, and so on down to the present. The method is familiar from the preceding pages of this report, and the results are embodied in Table 35.

TABLE 35.—*Prices of staple agricultural products measured by their production, 1860–1891.*

Year.	Price.	Year.	Price.	Year.	Price.	Year.	Price.
1860	100.0	1868	179.1	1876	103.7	1884	100.8
1861	104.2	1869	163.9	1877	102.5	1885	87.9
1862	176.7	1870	130.6	1878	90.9	1886	87.5
1863	247.1	1871	127.6	1879	91.1	1887	89.6
1864	370.0	1872	124.3	1880	102.9	1888	93.6
1865	210.3	1873	119.5	1881	117.1	1889	86.5
1866	185.6	1874	137.6	1882	120.3	1890	93.7
1867	181.9	1875	131.4	1883	102.0	1891	98.4

This table omits clover seed, flaxseed, hides, and timothy seed, but includes all the other articles, meats being averaged to form a single quotation. The table shows the average price in 1891 for these articles to be but 1.6 per cent less than in 1860. The advance of cotton prices raises the general average in the early sixties. It will be interesting to note the effects which follow the omission of cotton. The relative prices are as follows:

1861	81.5	1864	199.1
1862	93.9	1865	159.1
1863	119.2	1866	152.8

Exclusive of cotton, therefore, agricultural prices were subject to no greater fluctuations than those which characterized prices generally. After 1866 the price of cotton becomes normal and has a proper place in the averages of the succeeding years. The high prices of 1867 were gradually reduced with the lapse of years until, in 1876, relative prices stood at 103.7 as compared with 1860. In 1878 they stood at 90.9, but in 1881 and 1882 there was an advance. In 1883 and 1884 the level of prices is nearly the same as in 1860, but in the following years it is lower. The lowest stand was in 1886, at 87.5. Since 1889 there has been a considerable advance, and in 1891 prices were only a little less than in 1860.

PRICES IN GOLD.

The premium on gold was a disturbing element in the formation of prices during the years 1862–1878. In Table 36 we have reduced to the gold basis the two averages of agricultural products, drawn respectively from Tables 33 and 35.

TABLE 36.—*Average prices of agricultural products, in gold, 1860–1891.*

Year.	Simple average of 15 products (from Table 33).	Weighted average of 9 products (from Table 35).	Year.	Simple average of 15 products (from Table 33).	Weighted average of 9 products (from Table 35.)
1860	100.0	100.0	1876	102.0	91.9
1861	91.7	104.2	1877	104.2	96.5
1862	128.5	172.4	1878	97.0	89.7
1863	121.7	170.3	1879	98.4	91.1
1864	167.1	243.7	1880	109.9	102.9
1865	90.0	97.3	1881	121.1	117.1
1866	122.6	132.5	1882	114.4	120.3
1867	127.3	135.1	1883	100.3	102.0
1868	124.8	129.3	1884	104.7	100.8
1869	119.8	120.9	1885	93.9	87.9
1870	121.1	107.7	1886	96.5	87.5
1871	117.8	115.3	1887	94.9	89.6
1872	118.4	113.9	1888	95.7	93.6
1873	117.7	106.0	1889	91.3	86.5
1874	123.4	123.5	1890	97.4	93.7
1875	112.1	116.8	1891	97.1	98.4

The first column gives the average of fifteen distinct products of Table 33, while the second column repeats Table 35, but expressing the prices of 1862–1878 in gold instead of currency. A striking feature of the table are the low prices of 1865. It will also be noticed that on the gold basis the second column shows only a few years since 1865 which are higher than 1882. They are 1866, 1867, 1868, 1869, and 1874. This table shows the same tendencies as Table 35, but in a less degree.

RATES OF WAGES FOR FIFTY-TWO YEARS.

The necessary counterpart of the investigation which has been made into prices and the cost of living is the investigation into wages for the same period. The results of the investigation conducted by the Department of Labor are embodied in Table XII of the report. They are exceedingly comprehensive and cover wages in twenty-two more or less distinct industries. Not only the extent of the investigation, but its wealth of detail must command respect. There are 61 series of wage returns which begin as early as 1840, and as many as 543 distinct series which cover the period from 1860 to 1891. With a showing as complete as this is there can be no doubt that we shall obtain a much clearer view of the present status of wages and their course during the period in question than has heretofore been obtainable.

The familiar methods of analysis which have served so well the purposes of the committee have been applied here. The wages in January, 1860, are taken as the basis, and subsequent wages are calculated as percentages of the same. In this manner we secure the relative wages shown in Table 37.

TABLE 37.—*Rates of wages for 52 years—Relative wages.*

AGRICULTURAL IMPLEMENTS.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	1. Foremen, woodworkers.	1. Laborers.	1. Machinists.	1. Painters.	1. Woodworkers.
1840	.....	.....	.....	.....	.....
1841	.....	.....	.....	.....	.....
1842	.....	.....	.....	.....	.....
1843	.....	.....	.....	.....	.....
1844	.....	.....	.....	.....	.....
1845	.....	.....	.....	.....	.....
1846	.....	.....	.....	.....	.....
1847	.....	.....	.....	.....	.....
1848	.....	.....	.....	.....	.....
1849	.....	.....	.....	.....	.....
1850	.....	.....	.....	.....	.....
1851	.....	.....	.....	.....	.....
1852	.....	.....	.....	.....	.....
1853	.....	.....	.....	.....	.....
1854	.....	.....	.....	.....	.....
1855	.....	.....	.....	.....	.....
1856	.....	.....	.....	.....	.....
1857	99.4	91.5	95.2	.....	106.0
1858	99.4	.....	97.6	.....	112.4
1859	100.0	83.5	90.1	.....	106.0
1860	100.0	100.0	100.0	100.0	100.0
1861	100.0	100.0	107.5	100.0	103.6
1862	99.1	87.5	100.0	100.0	112.4
1863	107.6	89.5	112.6	.....	112.4
1864	122.0	116.5	107.5	88.8	123.6
1865	152.4	150.0	125.2	113.2	168.5
1866	175.3	162.5	130.9	121.4	191.0
1867	170.1	168.5	129.4	132.0	177.9
1868	182.9	151.5	136.6	120.0	170.4
1869	182.9	155.0	129.1	120.0	170.4
1870	182.9	156.0	136.3	120.0	167.8
1871	182.9	141.5	134.2	130.0	171.9
1872	182.9	147.0	134.2	136.8	168.9
1873	182.9	145.0	133.0	133.2	167.8
1874	182.9	150.0	129.4	150.8	172.3
1875	182.9	143.0	131.2	156.0	179.4
1876	164.6	135.0	113.8	141.6	151.3
1877	164.6	121.0	108.7	122.0	130.7
1878	164.6	127.0	108.7	116.0	136.7
1879	164.6	120.0	103.9	120.0	132.2
1880	164.6	123.0	114.1	97.2	125.8
1881	164.6	122.5	109.6	102.0	124.3
1882	164.6	130.5	119.8	112.0	140.1
1883	164.6	138.0	121.3	134.8	140.4
1884	164.6	138.0	121.0	125.2	139.7
1885	164.6	127.0	115.6	121.6	131.1
1886	182.9	129.5	121.3	126.8	139.7
1887	182.9	130.0	121.3	126.8	140.4
1888	182.9	134.5	114.1	126.4	137.1
1889	182.9	133.5	117.1	116.0	139.3
1890	182.9	130.5	123.4	122.0	136.0
1891	182.9	137.0	121.3	120.4	128.1

TABLE 32.—*Relative prices of agricultural products, individual quotations*—Continued.

[The figures in the headings indicate the pages on which the quotations are tabulated in Table X.]

Year.	31. Meat, sheep, good to choice, five weight.	31. Meat, sheep, good to prime, five weight.	32. Oats.	35. Rye.	38. Timothy seed.	39. Timothy seed.	39. Timothy seed.	45. Tobacco, leaf, Kentucky.	52. Tobacco, seed leaf, cigar, binders.	53. Tobacco, seed leaf, cigar, fillers.	53. Tobacco, seed leaf, cigar, smokers.
1840	.....	.....	102.0	79.6	.....	.....	82.8	94.1	.....	.....	.....
1841	.....	.....	126.8	89.2	.....	73.8	122.8	91.2	.....	.....	.....
1842	.....	.....	70.6	75.8	46.5	73.8	78.4	55.9	.....	.....	.....
1843	40.0	.....	69.9	80.3	.....	.....	88.4	58.8	.....	.....	.....
1844	.....	.....	86.3	84.7	.....	.....	68.4	51.5	.....	.....	.....
1845	.....	.....	105.9	87.3	.....	.....	81.6	60.3	.....	.....	.....
1846	.....	.....	100.7	100.6	.....	67.5	85.6	57.4	.....	.....	.....
1847	46.0	.....	142.5	108.3	52.3	116.0	92.8	69.1	.....	.....	.....
1848	.....	.....	89.5	87.9	.....	105.5	97.2	61.8	.....	.....	.....
1849	.....	.....	94.1	76.4	.....	105.5	108.4	79.4	.....	.....	.....
1850	.....	.....	111.1	86.9	.....	137.1	102.8	102.9	.....	.....	.....
1851	90.0	.....	104.6	86.9	.....	137.1	97.2	77.9	.....	.....	.....
1852	80.0	.....	118.3	109.6	104.7	84.4	108.4	82.4	.....	.....	.....
1853	100.0	.....	127.5	115.3	.....	78.1	94.4	92.6	84.6	81.8	120.0
1854	120.0	.....	132.7	152.9	122.1	94.9	160.0	94.1	.....	.....	.....
1855	120.0	.....	117.6	147.8	107.6	131.6	137.6	82.4	.....	.....	.....
1856	.....	.....	117.6	108.3	119.2	137.1	145.0	100.0	123.1	127.3	160.0
1857	.....	.....	117.6	89.2	101.7	121.1	145.0	152.9	.....	.....	.....
1858	.....	.....	134.6	101.9	69.8	69.6	95.0	82.4	123.1	109.1	160.0
1859	66.0	.....	108.5	103.8	98.0	100.0	94.4	102.9	100.0	100.0	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	.....	.....	.....
1861	80.0	90.5	90.2	87.3	65.1	63.3	75.0	123.5	.....	.....	.....
1862	150.0	104.8	150.3	80.3	68.6	69.6	77.5	220.6	200.0	218.2	260.0
1863	174.8	100.0	183.7	138.5	104.7	107.6	93.0	210.3	169.2	163.6	224.0
1864	240.0	152.4	227.5	184.7	186.0	248.9	200.0	314.7	153.8	122.7	180.0
1865	220.0	128.6	156.9	127.4	165.1	168.8	190.0	294.1	76.9	63.6	100.0
1866	190.0	111.9	149.0	159.2	130.7	139.2	132.5	229.4	61.5	54.5	70.0
1867	170.0	109.5	198.7	204.5	99.3	111.8	117.0	155.9	69.2	45.5	60.0
1868	110.0	121.4	189.5	191.1	123.3	132.9	125.0	155.9	123.1	100.0	120.0
1869	144.0	109.5	167.3	148.4	145.3	168.8	185.0	141.2	107.7	109.1	120.0
1870	140.0	109.5	139.9	114.6	190.7	211.0	235.0	120.6	92.3	90.9	120.0
1871	130.0	109.5	138.6	118.5	116.3	130.8	125.0	117.6	146.2	159.1	230.0
1872	192.0	121.4	115.0	108.3	130.2	132.9	155.0	132.4	153.8	163.6	220.0
1873	140.0	114.3	136.6	113.4	114.0	128.7	130.0	120.6	200.0	200.0	280.0
1874	180.0	114.3	158.8	119.7	120.9	109.7	113.0	185.3	146.2	154.5	180.0
1875	170.0	123.8	117.6	114.6	104.7	101.3	115.0	170.6	130.8	136.4	160.0
1876	160.0	114.3	112.4	104.5	81.4	73.8	75.0	147.1	100.0	118.2	140.0
1877	160.0	102.4	88.9	94.9	60.5	57.0	58.5	111.8	107.7	100.0	90.0
1878	140.0	92.9	75.8	82.2	51.2	50.6	120.0	97.1	100.0	100.0	120.0
1879	150.0	92.9	94.1	101.9	88.4	84.4	105.0	.....	107.7	109.1	130.0
1880	182.0	92.9	110.1	122.3	106.0	99.2	110.0	97.1	123.1	100.0	140.0
1881	198.0	100.0	119.6	140.8	125.6	122.4	117.0	132.4	115.4	90.9	120.0
1882	170.0	104.8	103.4	101.3	74.4	78.1	99.0	120.6	107.7	81.8	140.0
1883	158.0	95.2	92.0	92.4	58.1	54.9	56.0	117.6	123.1	90.9	130.0
1884	160.0	92.9	81.5	88.2	58.6	57.0	65.0	120.6	.....	.....	.....
1885	146.0	90.5	86.6	79.0	77.2	71.7	80.0	116.2	107.7	81.8	130.0
1886	158.0	91.4	93.5	70.1	84.2	78.1	87.0	111.8	76.9	63.6	100.0
1887	156.0	87.1	92.6	70.1	103.7	97.0	90.0	114.7	115.4	81.8	90.0
1888	166.0	85.7	78.1	83.4	67.4	67.5	90.0	117.6	92.3	90.9	80.0
1889	188.0	92.9	68.3	63.7	58.6	54.9	62.0	111.8	107.7	90.9	80.0
1890	178.0	100.0	114.7	87.9	57.7	54.9	64.0	111.8	115.4	90.9	100.0
1891	178.0	97.6	86.6	123.6	52.1	50.6	.....	.....	146.2	168.2	210.0

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

BOOKS AND NEWSPAPERS.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	5. Carpenters.	3. Compositors.	5. Compositors.	6. Compositors.	3. Compositors, (piece workers).	3. Compositors' apprentices.	6. Compositors' apprentices.	5. Compositors, learners.	5. Folders.	6. Folders.	5. Foremen, compositors.
1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	75.0	.....	.....	96.0	17.1	.....	.....	.....	.....	.....
1843	.....	75.0	.....	.....	100.0	27.9	.....	.....	.....	.....	.....
1844	.....	.....	.....	.....	100.0	35.1	.....	.....	.....	.....	.....
1845	.....	75.0	.....	.....	100.0	38.7	.....	.....	.....	.....	.....
1846	.....	83.3	.....	.....	100.0	39.6	.....	.....	.....	.....	.....
1847	.....	83.3	.....	.....	100.0	34.2	.....	.....	.....	.....	.....
1848	.....	83.3	.....	.....	100.0	34.2	.....	.....	.....	.....	.....
1849	.....	.....	.....	.....	120.0	29.7	.....	.....	.....	.....	.....
1850	.....	.....	.....	.....	120.0	53.2	.....	.....	.....	.....	.....
1851	.....	.....	.....	81.7	120.0	36.0	77.5	.....	.....	79.0	.....
1852	.....	.....	.....	81.7	120.0	45.9	84.1	.....	.....	91.0	.....
1853	.....	.....	.....	90.7	120.0	64.9	92.1	.....	.....	75.0	.....
1854	.....	.....	.....	100.0	120.0	52.3	76.2	.....	.....	72.0	.....
1855	.....	.....	.....	90.7	120.0	60.4	80.1	.....	.....	83.0	.....
1856	.....	.....	.....	90.7	100.0	55.9	67.5	.....	.....	87.0	.....
1857	.....	100.0	.....	100.0	100.0	55.0	87.4	.....	.....	72.0	.....
1858	95.1	.....	100.0	.....	100.0	100.0	109.3	92.8	96.8	75.0	100.0
1859	97.3	.....	99.1	107.9	.....	.....	96.0	87.8	98.9	83.0	100.0
1860	100.0	.....	100.0	100.0	.....	.....	100.0	100.0	100.0	100.0	100.0
1861	95.1	.....	99.1	108.2	.....	.....	88.1	75.5	91.5	87.0	100.0
1862	95.1	.....	98.8	106.0	.....	.....	93.4	81.3	100.0	67.0	100.0
1863	101.5	.....	99.1	106.8	.....	.....	89.4	93.5	104.3	.....	100.0
1864	101.5	108.3	.....	113.6	150.0	77.5	121.2	.....	.....	.....	.....
1865	126.6	137.5	150.5	137.9	160.0	82.0	98.0	107.9	109.6	.....	150.0
1866	139.5	125.0	150.5	133.5	160.0	116.2	96.7	120.1	119.1	.....	150.0
1867	139.5	.....	150.5	136.2	172.0	150.5	102.0	136.7	125.5	.....	150.0
1868	190.1	143.8	180.2	163.5	172.0	132.4	92.1	138.8	127.7	.....	170.8
1869	190.1	162.5	180.2	163.5	172.0	135.1	113.2	115.8	138.3	.....	170.8
1870	180.6	.....	180.2	163.5	.....	.....	105.3	120.9	139.4	.....	170.8
1871	180.6	.....	180.2	163.5	.....	.....	94.7	138.1	148.9	.....	170.8
1872	180.6	152.8	180.2	163.5	150.0	130.6	107.3	140.3	147.9	100.0	170.8
1873	180.6	145.8	180.2	162.9	150.0	153.2	93.4	141.0	148.9	.....	170.8
1874	180.6	145.8	180.2	133.0	150.0	150.5	102.0	123.0	145.7	.....	170.8
1875	209.1	129.8	180.2	163.5	138.0	140.5	107.3	116.5	155.3	.....	170.8
1876	166.9	140.0	180.2	163.5	138.0	128.8	106.0	122.3	155.3	.....	170.8
1877	171.1	127.8	180.2	145.5	148.0	139.6	116.6	81.3	155.3	.....	170.8
1878	171.1	121.8	153.8	136.8	148.0	180.2	107.9	88.5	139.4	.....	158.3
1879	171.1	114.0	152.3	135.7	148.0	156.8	118.5	100.7	127.7	.....	158.3
1880	152.1	107.3	151.7	136.2	138.0	160.4	113.2	104.3	139.4	.....	158.3
1881	152.1	113.8	154.4	128.9	138.0	174.8	110.6	102.2	137.2	.....	.....
1882	152.1	111.8	126.4	128.9	138.0	112.6	102.0	128.8	112.8	.....	158.3
1883	177.6	119.0	138.4	136.2	138.0	137.8	111.3	177.7	103.2	.....	158.3
1884	190.1	127.8	133.6	136.2	138.0	147.7	98.0	78.4	116.0	.....	158.3
1885	190.1	123.0	130.0	136.2	138.0	158.6	106.0	.....	117.0	.....	158.3
1886	190.1	123.0	142.6	136.2	138.0	130.6	126.5	89.9	118.1	.....	158.3
1887	190.1	121.5	150.2	136.2	138.0	127.9	97.4	95.7	119.1	.....	154.3
1888	190.1	124.8	150.2	136.2	138.0	142.3	106.0	100.0	125.5	.....	154.3
1889	190.1	126.3	150.2	136.2	140.0	175.7	97.4	116.5	130.9	.....	154.3
1890	190.1	122.5	150.2	136.2	138.0	132.4	95.4	123.0	145.7	.....	154.3
1891	190.1	126.5	150.2	137.3	138.0	187.4	100.7	99.3	122.3	.....	154.3

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

BOOKS AND NEWSPAPERS—Concluded.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	6. Foremen, compositors.	5. Foremen, pressmen.	3. Laborers.	5. Machinists.	5. Porters.	3. Press feeders.	6. Press feeders.	3. Pressmen.	5. Pressmen.	6. Pressmen.	5. Pressroom hands.
1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	.....	.....	.....	.....	86.2	.....	.....	.....	.....	.....
1843	.....	.....	.....	.....	.....	86.2	.....	.....	.....	.....	.....
1844	.....	.....	.....	.....	.....	86.2	.....	.....	.....	.....	.....
1845	.....	.....	.....	.....	.....	85.3	.....	.....	.....	.....	.....
1846	.....	.....	.....	.....	.....	86.2	.....	.....	.....	.....	.....
1847	.....	.....	.....	.....	.....	86.2	.....	87.2	.....	.....	.....
1848	.....	.....	93.7	.....	.....	85.3	.....	93.3	.....	.....	.....
1849	.....	.....	93.7	.....	.....	86.2	.....	96.8	.....	.....	.....
1850	.....	.....	93.7	.....	.....	86.2	.....	92.2	.....	.....	.....
1851	66.6	.....	93.7	.....	.....	86.2	.....	91.3	.....	71.3	.....
1852	66.6	.....	92.2	.....	.....	86.2	.....	88.7	.....	64.2	.....
1853	66.6	.....	89.3	.....	.....	86.2	.....	94.5	.....	67.9	.....
1854	73.4	.....	101.5	.....	.....	100.0	.....	101.2	.....	71.3	.....
1855	73.4	.....	102.9	.....	.....	98.3	.....	101.7	.....	78.6	.....
1856	73.4	.....	101.5	.....	.....	98.3	.....	107.6	.....	78.6	.....
1857	106.6	.....	96.1	.....	.....	100.0	.....	98.8	.....	96.4	.....
1858	104.4	100.0	100.0	97.7	103.3	100.0	.....	100.0	.....	92.7	96.1
1859	100.0	100.0	.....	93.0	100.0	.....	.....	.....	.....	92.7	104.9
1860	100.0	100.0	.....	100.0	100.0	.....	.....	.....	100.0	100.0	100.0
1861	100.0	100.0	.....	95.3	115.3	.....	100.0	.....	100.0	92.7	98.1
1862	100.0	100.0	.....	93.5	103.3	.....	151.5	.....	100.0	92.7	100.0
1863	100.0	100.0	.....	91.8	118.6	.....	151.5	.....	100.0	92.7	103.9
1864	110.0	.....	.....	.....	.....	110.3	163.6	105.5	.....	92.7	.....
1865	129.0	133.3	122.0	161.3	143.7	144.0	189.4	135.2	150.2	.....	132.0
1866	129.0	150.0	.....	152.8	143.7	158.6	201.5	132.8	130.0	.....	135.9
1867	129.0	150.0	.....	.....	142.6	172.4	200.0	146.2	130.0	.....	137.9
1868	131.2	150.0	158.5	.....	148.6	172.4	221.2	146.2	153.5	.....	170.9
1869	133.4	150.0	158.5	165.1	145.9	183.6	225.8	152.3	153.5	128.5	172.8
1870	133.4	150.0	.....	151.0	149.7	.....	253.0	.....	180.2	100.0	164.1
1871	137.8	150.0	.....	158.9	151.9	.....	254.5	.....	180.2	92.7	194.3
1872	137.8	150.0	170.7	158.9	163.9	175.0	297.0	170.9	172.7	105.8	180.6
1873	141.8	150.0	162.4	168.6	188.0	174.1	284.8	176.5	180.2	119.1	171.8
1874	141.8	150.0	195.1	161.3	.....	178.4	231.8	181.1	180.2	101.5	163.5
1875	141.8	150.0	170.7	161.3	200.5	172.4	218.2	163.4	180.2	119.1	154.4
1876	137.4	150.0	166.8	.....	182.0	169.0	231.8	161.9	180.2	121.4	144.7
1877	136.0	150.0	146.3	117.3	143.7	168.1	251.5	156.7	180.2	124.8	154.4
1878	126.6	150.0	117.1	105.6	136.6	168.1	251.5	148.0	180.2	123.1	145.6
1879	124.0	150.0	122.0	97.7	135.0	168.1	260.6	117.7	180.2	100.0	142.7
1880	130.0	150.0	146.3	107.6	124.6	167.2	251.5	123.8	170.3	100.0	122.2
1881	124.4	150.0	146.3	110.9	130.6	168.1	225.8	136.6	180.2	96.4	145.6
1882	126.6	150.0	146.3	117.3	130.6	166.4	234.8	141.0	180.2	96.4	158.3
1883	126.6	150.0	.....	132.0	145.9	161.2	251.5	137.8	180.2	100.0	169.5
1884	126.6	150.0	.....	132.0	129.9	168.1	251.5	134.3	167.0	100.0	158.3
1885	126.6	150.0	122.0	146.6	145.9	158.6	233.3	135.2	160.1	96.4	171.8
1886	126.6	150.0	122.0	146.6	145.9	163.8	237.9	143.9	166.7	104.7	151.5
1887	133.4	150.0	122.0	146.6	151.9	189.7	237.9	142.4	166.7	100.0	153.4
1888	130.0	150.0	122.0	146.6	151.9	189.7	230.3	141.0	163.4	105.4	158.9
1889	136.6	150.0	122.0	146.6	157.9	193.1	251.5	135.5	160.1	100.0	152.4
1890	120.6	150.0	146.3	146.6	157.9	193.1	225.8	142.4	160.1	107.1	158.3
1891	120.0	150.0	146.3	146.6	157.9	199.1	243.9	137.8	163.4	107.1	162.7

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

BUILDING TRADES.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	12. Brick-layers.	22. Brick-layers.	26. Brick-layers.	12. Brick-layers' helpers.	22. Brick-layers' helpers.	26. Brick-layers' helpers.	7. Carpen-ters.	8. Carpen-ters.	13. Carpen-ters.	17. Carpen-ters.	19. Carpen-ters.
1840	.....	.....	.....	.....	.....	.....	83.1	.....	.....	.....	.....
1841	.....	.....	.....	.....	.....	.....	83.1	.....	.....	.....	.....
1842	.....	.....	.....	.....	.....	.....	85.4	.....	.....	.....	.....
1843	.....	.....	.....	.....	.....	.....	85.4	.....	.....	.....	75.0
1844	.....	.....	.....	.....	.....	.....	85.4	.....	.....	.....	75.0
1845	.....	.....	.....	.....	.....	.....	82.0	.....	.....	.....	87.5
1846	.....	.....	.....	.....	.....	.....	85.4	.....	.....	.....	100.0
1847	.....	.....	.....	.....	.....	.....	85.4	.....	.....	.....	100.0
1848	.....	.....	.....	.....	.....	.....	82.0	.....	.....	.....	100.0
1849	.....	.....	.....	.....	.....	.....	82.0	.....	.....	.....	100.0
1850	.....	.....	.....	.....	.....	.....	90.3	.....	.....	.....	100.0
1851	.....	87.5	.....	.....	80.0	.....	91.4	.....	.....	.....	100.0
1852	.....	87.5	.....	.....	80.0	.....	94.3	.....	.....	.....	100.0
1853	.....	87.5	.....	.....	80.0	.....	95.7	.....	.....	.....	100.0
1854	.....	87.5	.....	.....	80.0	.....	107.1	.....	99.3	97.7	106.0
1855	.....	87.5	.....	.....	80.0	.....	85.7	.....	98.5	92.2	100.0
1856	.....	87.5	.....	.....	80.0	.....	85.7	.....	100.0	105.0	93.8
1857	.....	87.5	.....	.....	80.0	.....	100.0	.....	104.9	103.5	100.0
1858	.....	75.0	.....	.....	60.0	.....	85.7	.....	103.0	100.0	100.0
1859	114.5	75.0	.....	113.3	80.0	.....	100.0	99.4	107.2	91.2	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	117.7	100.0	100.0	110.3	100.0	111.6	85.7	88.8	89.8	111.5	100.0
1862	121.7	112.5	112.5	121.2	100.0	111.6	85.7	90.6	102.3	115.4	100.0
1863	122.0	125.0	.....	119.7	130.0	.....	100.0	113.9	114.8	138.5	100.0
1864	152.0	150.0	125.0	147.8	180.0	133.9	.....	132.5	128.8	153.8	150.0
1865	170.1	150.0	150.0	147.8	180.0	178.6	157.1	.....	158.3	158.8	162.5
1866	193.4	200.0	150.0	172.4	200.0	178.6	160.9	.....	180.7	178.8	175.0
1867	208.6	250.0	175.0	147.8	220.0	200.9	185.7	.....	190.2	184.6	187.5
1868	247.4	225.0	175.0	197.0	200.0	200.9	174.3	.....	205.7	182.7	200.0
1869	228.6	250.0	175.0	197.0	220.0	178.6	173.7	175.7	188.6	191.2	200.0
1870	253.3	250.0	175.0	209.4	220.0	178.6	185.7	161.5	183.7	186.5	175.0
1871	236.5	200.0	200.0	199.0	180.0	200.9	.....	163.3	179.5	191.2	175.0
1872	205.9	200.0	200.0	183.7	200.0	223.2	.....	161.2	197.3	185.0	175.0
1873	210.9	200.0	187.5	190.6	200.0	223.2	185.7	176.9	187.9	176.2	175.0
1874	224.7	175.0	175.0	191.1	200.0	200.9	157.1	171.6	192.4	174.2	187.5
1875	217.1	150.0	162.5	194.1	160.0	178.6	157.1	157.7	171.6	172.7	160.0
1876	226.0	125.0	150.0	189.7	140.0	156.3	157.1	139.3	150.0	160.4	140.0
1877	177.6	125.0	137.5	177.8	120.0	156.3	109.4	133.1	132.6	139.6	125.0
1878	183.2	125.0	112.5	177.8	120.0	133.9	128.6	133.1	130.7	137.7	125.0
1879	176.6	125.0	112.5	175.9	120.0	133.9	100.0	.....	126.9	131.5	125.0
1880	184.9	150.0	100.0	172.4	140.0	133.9	128.6	.....	131.8	138.8	150.0
1881	197.4	225.0	150.0	165.5	200.0	156.3	138.0	.....	150.0	153.5	162.5
1882	201.3	200.0	150.0	163.1	200.0	156.3	157.1	.....	146.2	166.9	175.0
1883	190.5	200.0	162.5	180.8	200.0	178.6	162.9	146.4	137.1	165.8	175.0
1884	200.0	200.0	162.5	147.8	200.0	178.6	157.1	147.9	143.2	165.8	175.0
1885	225.0	200.0	187.5	157.1	200.0	200.9	157.1	151.5	137.9	158.8	175.0
1886	209.5	200.0	187.5	156.7	200.0	200.9	157.1	163.3	148.5	160.4	175.0
1887	219.4	200.0	187.5	151.2	200.0	200.9	157.1	150.0	146.2	166.5	175.0
1888	201.3	200.0	187.5	147.8	200.0	200.9	157.1	150.3	147.3	168.8	175.0
1889	218.8	200.0	187.5	147.8	200.0	200.9	157.1	152.7	158.0	167.3	175.0
1890	213.8	225.0	187.5	152.7	200.0	200.9	178.6	151.2	160.6	166.2	175.0
1891	208.3	200.0	200.0	154.2	200.0	200.9	178.6	154.1	147.7	163.1	175.0

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

BUILDING TRADES—Continued.

(The figures in the heading indicate the establishment number as tabulated in Table XII.)

Year.	27. Carpenters.	28. Carpenters.	13. Carpenters' helpers.	17. Carpenters' helpers.	17. Carpenters' apprentices.	12. Foremen, bricklayers.	13. Foremen, carpenters.	12. Foremen, masons.	13. Foremen, painters.	9. Hod carriers.	16. Laborers.
1840	.....	71.4	.....	.....	.....	.....	.....	.....	.....	.....	.....
1841	.....	71.4	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	71.4	.....	.....	.....	.....	.....	.....	.....	.....	.....
1843	.....	71.4	.....	.....	.....	.....	.....	.....	.....	.....	.....
1844	.....	71.4	.....	.....	.....	.....	.....	.....	.....	.....	.....
1845	.....	71.4	.....	.....	.....	.....	.....	.....	.....	.....	.....
1846	.....	71.4	.....	.....	.....	.....	.....	.....	.....	.....	.....
1847	.....	85.7	.....	.....	.....	.....	.....	.....	.....	.....	.....
1848	.....	85.7	.....	.....	.....	.....	.....	.....	.....	.....	.....
1849	71.4	85.7	.....	.....	.....	.....	.....	.....	.....	.....	.....
1850	71.4	85.7	.....	.....	.....	.....	.....	.....	.....	.....	63.6
1851	71.4	85.7	.....	.....	.....	.....	.....	.....	.....	.....	74.2
1852	71.4	85.7	.....	.....	.....	.....	.....	.....	.....	91.3	74.2
1853	85.7	85.7	.....	.....	.....	.....	.....	.....	.....	.....	84.7
1854	85.7	85.7	78.3	.....	113.0	.....	89.8	.....	88.7	98.2	84.7
1855	85.7	85.7	100.0	117.1	140.2	.....	100.0	.....	88.7	91.3	84.7
1856	85.7	85.7	90.4	110.8	139.1	.....	100.0	.....	100.0	91.3	84.7
1857	85.7	85.7	100.0	119.6	108.7	.....	100.0	.....	100.0	105.9	90.3
1858	85.7	85.7	100.0	115.8	129.3	.....	100.0	.....	100.0	91.3	84.7
1859	100.0	85.7	100.0	126.6	118.5	100.0	100.0	100.0	100.0	121.5	97.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	114.3	100.0	115.8	71.7	100.0	100.0	120.0	100.0	91.3	84.7
1862	114.3	142.9	90.4	140.5	81.5	100.0	104.8	100.0	.....	91.3	84.7
1863	114.3	171.4	120.5	158.2	108.7	110.0	119.8	100.0	111.3	147.9	97.0
1864	128.6	171.4	120.5	.....	148.9	.....	134.7	120.0	116.7	145.7	116.5
1865	133.4	142.9	150.6	189.9	.....	.....	149.7	160.0	150.0	152.1	133.0
1866	151.1	142.9	210 8	189.9	.....	160.0	194.6	160.0	183.3	152.1	155.1
1867	152.3	142.9	180.7	189.9	.....	180.0	194.6	160.0	200.0	157.5	153.0
1868	153.1	142.9	165.7	189.9	.....	180.0	194.6	170.0	183.3	174.0	153.0
1869	152.9	142.9	180.7	189.9	.....	180.0	194.6	200.0	200.0	180.4	155.1
1870	152.3	142.9	180.7	189.9	.....	200.0	209.6	200.0	183.3	179.0	121.8
1871	154.3	157.1	180.7	189.9	144.6	200.0	209.6	200.0	200.0	182.6	139.4
1872	153.1	157.1	180.7	189.9	151.1	200 0	209.6	200.0	200.0	181.3	164.8
1873	152.0	157.1	180.7	174.1	144.6	200.0	209.6	200.0	200.0	181.3	168.7
1874	150.0	157.1	160.2	192.4	179.3	200.0	209.6	200.0	200.0	182.6	155.5
1875	134.6	157.1	.....	176.6	175.0	200.0	209.6	200.0	200.0	163.0	155.5
1876	132.6	157.1	150.6	176.6	162.0	200.0	194.6	180.0	166.7	143.8	169.5
1877	121.4	157.1	130.7	174.1	217.4	190.0	194.6	180.0	166.7	117.4	169.5
1878	122.6	157.1	142.8	164.6	.....	160.0	179.6	160.0	150.0	121.9	141.1
1879	126.9	157.1	138.6	181.6	127.2	140.0	179.6	160.0	150.0	116.4	141.1
1880	131.1	157.1	145.8	174.1	108.7	140.0	194.6	160.0	166.7	144.3	112.7
1881	143.7	157.1	150.0	186.1	154.3	160.0	239.5	160.0	183.3	179.5	127.1
1882	156.0	157.1	142.2	189.9	.....	200.0	239.5	200.0	166.7	181.7	127.1
1883	156.0	157.1	139.2	163.3	.....	200.0	.....	240.0	150.0	181.3	127.1
1884	153.1	157.1	150.6	177.2	108.7	200.0	.....	200.0	.....	181.7	127.1
1885	153.1	157.1	142.8	189.9	180.4	200.0	.....	200.0	.....	180.8	127.1
1886	152.9	154.3	150.6	181.6	.....	200.0	.....	200.0	.....	182.6	127.1
1887	156.0	154.3	139.8	189.9	.....	190.0	.....	200.0	.....	182.6	127.1
1888	155.1	154.3	152.4	174.1	.....	200.0	.....	200.0	.....	182.6	127.1
1889	160.3	154.3	140.4	.....	.....	200.0	.....	180.0	.....	182.6	127.1
1890	162.0	154.3	133.1	167.1	.....	180.0	.....	180.0	.....	182.6	148.3
1891	163.4	154.3	138.0	185.4	.....	180.0	.....	180.0	.....	180.8	148.3

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

BUILDING TRADES—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	17. Laborers.	17. Machine hands.	17. Machine hands' helpers.	9. Masons.	12. Masons.	12. Mason's helpers.	10. Painters.	13. Painters.	18. Painters.	23. Painters.	15. Painters, house.
1840	.....	.....	.....	.....	.....	.....	71.4	.....	75.0	.....	.....
1841	.....	.....	.....	.....	.....	.....	71.4	.....	75.0	.....	.....
1842	.....	.....	.....	.....	.....	.....	76.3	.....	75.0	.....	.....
1843	.....	.....	.....	.....	.....	.....	77.1	.....	75.0	.....	.....
1844	.....	.....	.....	.....	.....	.....	79.4	.....	75.0	.....	.....
1845	.....	.....	.....	.....	.....	.....	81.4	.....	75.0	.....	.....
1846	.....	.....	.....	.....	.....	.....	81.4	.....	75.0	.....	.....
1847	.....	.....	.....	.....	.....	.....	85.7	.....	75.0	.....	.....
1848	.....	.....	.....	.....	.....	.....	85.7	.....	75.0	.....	.....
1849	.....	.....	.....	.....	.....	.....	85.7	.....	75.0	.....	.....
1850	.....	.....	.....	.....	.....	.....	85.7	.....	87.5	.....	.....
1851	.....	.....	.....	.....	.....	.....	85.7	.....	87.5	.....	.....
1852	.....	.....	.....	88.3	.....	.....	85.7	.....	87.5	.....	.....
1853	.....	.....	.....	89.7	.....	.....	.....	.....	87.5	.....	.....
1854	94.3	.....	.....	94.6	.....	.....	.....	94.5	100.0	.....	.....
1855	85.2	.....	.....	87.3	.....	.....	.....	91.1	100.0	.....	.....
1856	85.2	100.0	100.0	94.9	.....	.....	100.0	100.4	100.0	89.3	.....
1857	85.2	.....	.....	97.8	.....	.....	100.0	112.2	100.0	91.4	89.7
1858	85.2	.....	.....	100.5	.....	.....	100.0	109.3	87.5	89.0	105.8
1859	100.0	.....	.....	101.0	108.8	106.7	100.0	96.6	100.0	101.6	99.1
1860	100.0	.....	.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	109.1	.....	.....	97.8	112.9	92.9	85.7	97.5	100.0	92.7	100.0
1862	142.0	.....	.....	97.8	123.8	111.0	85.7	101.7	100.0	91.4	100.9
1863	113.6	108.3	.....	113.2	120.1	114.3	100.0	105.5	112.5	113.1	100.9
1864	.....	133.3	.....	121.0	119.7	142.9	142.9	127.4	150.0	150.1	173.1
1865	.....	133.3	.....	137.9	160.8	142.9	142.9	168.8	175.0	185.4	191.9
1866	156.3	150.0	64.0	146.7	196.6	166.7	142.9	179.3	175.0	182.8	195.1
1867	.....	150.0	.....	167.5	193.7	154.3	171.4	197.0	200.0	204.4	215.7
1868	170.5	139.0	.....	195.1	230.4	190.5	171.4	177.2	175.0	200.3	213.0
1869	.....	139.0	.....	195.6	214.1	185.7	171.4	186.9	225.0	208.9	224.2
1870	.....	133.3	.....	194.1	223.5	207.1	171.4	153.2	175.0	183.2	221.5
1871	127.8	.....	33.2	187.8	227.3	195.7	171.4	197.0	175.0	182.8	211.2
1872	164.8	125.0	52.8	192.4	245.1	190.5	142.9	192.8	175.0	182.8	216.1
1873	155.1	143.7	41.6	194.1	206.9	178.6	142.9	211.0	175.0	182.8	205.4
1874	156.3	145.0	48.0	192.4	205.6	166.7	142.9	189.9	175.0	182.8	199.1
1875	132.4	140.3	48.4	166.5	187.8	161.0	142.9	181.9	175.0	178.3	212.1
1876	165.9	140.7	55.2	140.3	163.0	161.0	114.3	168.8	175.0	114.9	222.4
1877	127.8	125.0	53.2	125.7	163.6	162.4	114.3	154.4	125.0	124.0	230.0
1878	121.0	121.3	57.2	122.2	154.5	162.9	114.3	162.9	125.0	117.5	217.9
1879	126.7	116.7	60.8	110.8	159.6	162.4	114.3	135.0	150.0	117.5	218.4
1880	140.9	118.3	60.4	131.3	152.0	166.7	114.3	156.1	150.0	143.6	204.9
1881	140.9	121.7	60.4	151.3	184.6	145.2	114.3	160.8	150.0	156.7	195.1
1882	182.4	128.7	58.0	169.7	169.6	166.7	114.3	156.1	150.0	147.0	224.2
1883	141.5	125.7	56.8	184.6	172.4	190.5	142.9	133.8	150.0	156.7	232.7
1884	152.3	133.3	64.8	184.1	229.2	142.9	142.9	135.0	150.0	182.8	230.0
1885	139.8	128.7	68.0	181.7	224.5	158.1	142.9	156.1	150.0	163.7	218.4
1886	152.3	131.3	56.0	181.2	225.4	159.5	142.9	159.9	150.0	182.8	212.1
1887	156.3	127.7	57.2	173.8	213.8	142.9	142.9	158.2	150.0	182.8	213.0
1888	147.2	132.3	61.6	175.1	221.3	142.9	142.9	149.8	175.0	182.8	209.9
1889	146.0	127.7	53.2	173.3	214.7	147.6	142.9	166.2	175.0	182.8	218.4
1890	156.3	130.3	61.6	178.7	218.5	155.2	142.9	147.7	175.0	182.8	204.9
1891	156.8	121.0	61.6	183.6	206.9	156.2	142.9	160.8	175.0	182.8	204.9

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

BUILDING TRADES—Concluded.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	22. Plasterers.	29. Plasterers.	16. Plumbers.	20. Plumbers.	24. Roofers.	21. Roofers, slate and metal.	14. Steam and gas fitters.	14. Steam and gas fitters' helpers.	17. Teamsters.	16. Tinsmiths.
1840	.....	88.8	.....	.....	.....	120.0	.....	.....	.....	.....
1841	.....	88.8	.....	.....	.....	120.0	.....	.....	.....	.....
1842	.....	88.8	.....	.....	.....	120.0	.....	.....	.....	.....
1843	.....	88.8	.....	.....	.....	120.0	.....	.....	.....	.....
1844	.....	88.8	.....	.....	.....	120.0	.....	.....	.....	.....
1845	.....	88.8	.....	.....	.....	120.0	.....	.....	.....	.....
1846	.....	88.8	.....	.....	.....	120.0	.....	.....	.....	.....
1847	.....	96.2	.....	.....	.....	120.0	.....	.....	.....	.....
1848	.....	95.6	.....	.....	.....	120.0	.....	.....	.....	.....
1849	.....	97.0	.....	.....	.....	120.0	.....	.....	.....	.....
1850	.....	96.2	75.0	.....	.....	120.0	.....	.....	.....	72.7
1851	87.5	96.2	75.0	101.3	.....	120.0	.....	.....	.....	75.6
1852	87.5	97.3	75.0	101.3	.....	120.0	.....	.....	.....	80.6
1853	87.5	94.7	75.0	115.5	.....	100.0	.....	.....	.....	89.8
1854	87.5	96.2	79.3	115.5	91.3	100.0	.....	.....	82.7	89.5
1855	87.5	97.9	87.5	115.5	90.4	100.0	.....	.....	116.7	88.6
1856	87.5	97.3	81.3	115.5	97.9	100.0	.....	.....	116.7	86.0
1857	87.5	97.9	81.3	114.7	103.3	100.0	.....	.....	133.3	95.6
1858	75.0	98.5	84.3	115.5	100.6	100.0	99.1	104.8	100.0	95.6
1859	75.0	99.4	100.0	101.3	103.6	100.0	109.3	100.0	.....	96.8
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	.....	.....	100.0
1861	100.0	97.9	100.0	100.0	89.6	120.0	.....	.....	100.0	105.7
1862	112.5	98.5	84.3	106.7	89.6	160.0	.....	.....	100.0	109.2
1863	125.0	113.3	100.0	133.3	115.5	240.0	122.9	41.8	166.7	103.2
1864	150.0	114.2	125.0	186.7	143.3	280.0	118.2	76.6	233.3	117.8
1865	150.0	135.2	150.0	186.7	164.2	320.0	133.9	73.2	233.3	142.9
1866	200.0	153.8	138.5	195.5	179.1	280.0	133.9	62.8	233.3	149.2
1867	250.0	218.9	144.8	205.6	209.0	280.0	152.7	83.7	200.0	158.7
1868	225.0	216.9	150.8	205.6	179.1	280.0	121.4	83.7	200.0	171.4
1869	250.0	216.9	162.5	205.6	195.5	280.0	115.2	62.8	200.0	174.6
1870	250.0	168.9	162.5	203.5	186.0	280.0	126.5	83.7	200.0	169.2
1871	200.0	170.1	162.5	203.5	182.4	280.0	132.7	.....	200.0	182.5
1872	200.0	168.9	159.3	203.5	189.0	280.0	135.7	.....	205.3	174.6
1873	200.0	172.5	162.5	202.7	194.9	240.0	127.1	100.8	218.7	178.7
1874	175.0	168.9	163.8	200.0	205.7	240.0	136.0	76.6	266.7	185.1
1875	150.0	170.1	163.8	200.0	184.2	240.0	128.3	97.5	218.0	174.6
1876	125.0	137.0	158.3	186.7	184.2	240.0	126.5	102.9	196.7	174.6
1877	125.0	114.5	145.8	160.0	189.0	200.0	121.4	62.8	156.0	158.7
1878	125.0	114.5	131.3	160.0	189.0	200.0	126.5	62.8	166.7	150.8
1879	125.0	99.4	131.3	160.0	149.3	200.0	114.6	76.6	166.7	150.8
1880	150.0	107.4	121.8	160.0	144.2	200.0	128.3	69.8	166.7	142.9
1881	225.0	109.8	125.0	186.7	158.2	240.0	121.4	83.7	200.0	154.2
1882	200.0	135.2	125.0	186.7	175.2	240.0	122.9	83.7	200.0	158.7
1883	200.0	174.9	131.3	186.7	169.3	260.0	127.4	100.8	196.0	158.7
1884	200.0	207.1	131.3	186.7	169.3	280.0	128.0	.....	200.0	158.7
1885	200.0	207.1	131.3	186.7	174.0	280.0	130.7	83.7	200.0	158.7
1886	200.0	207.1	137.5	186.7	175.2	280.0	124.4	94.1	183.3	150.8
1887	200.0	207.1	137.5	186.7	189.0	280.0	109.5	94.1	211.3	155.9
1888	200.0	207.1	137.5	186.7	194.0	280.0	124.4	104.6	213.3	155.9
1889	200.0	207.1	137.5	186.7	209.0	280.0	126.5	94.1	.....	155.9
1890	225.0	207.1	137.5	186.7	209.0	280.0	117.3	104.6	211.3	155.9
1891	200.0	189.3	125.0	186.7	209.0	280.0	117.0	.....	180.0	109.2

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

CARRIAGES AND WAGONS.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	33. Blacksmiths.	33. Blacksmiths' helpers.	33. Painters.	33. Wheelwrights.
1840	100.0	100.0	100.0	100.0
1841	100.0	100.0	100.0	100.0
1842	100.0	100.0	100.0	100.0
1843	100.0	100.0	100.0	100.0
1844	100.0	100.0	100.0	100.0
1845	100.0	100.0	100.0	100.0
1846	100.0	100.0	100.0	100.0
1847	100.0	100.0	100.0	100.0
1848	100.0	100.0	100.0	100.0
1849	100.0	100.0	100.0	100.0
1850	100.0	100.0	100.0	100.0
1851	100.0	100.0	100.0	100.0
1852	100.0	100.0	100.0	100.0
1853	100.0	100.0	100.0	100.0
1854	100.0	100.0	100.0	100.0
1855	100.0	100.0	100.0	100.0
1856	100.0	100.0	100.0	100.0
1857	100.0	100.0	100.0	100.0
1858	100.0	100.0	100.0	100.0
1859	100.0	100.0	100.0	100.0
1860	100.0	100.0	100.0	100.0
1861	100.0	100.0	100.0	100.0
1862	200.0	179.6	140.0	160.0
1863	200.0	179.6	140.0	160.0
1864	200.0	179.6	140.0	160.0
1865	200.0	179.6	140.0	160.0
1866	200.0	179.6	140.0	160.0
1867	200.0	179.6	140.0	160.0
1868	200.0	179.6	140.0	160.0
1869	200.0	179.6	140.0	200.0
1870	200.0	179.6	140.0	200.0
1871	200.0	179.6	140.0	200.0
1872	200.0	179.6	140.0	200.0
1873	200.0	179.6	140.0	200.0
1874	200.0	179.6	140.0	200.0
1875	200.0	179.6	140.0	200.0
1876	200.0	179.6	140.0	200.0
1877	200.0	179.6	140.0	200.0
1878	200.0	179.6	140.0	200.0
1879	200.0	179.6	140.0	200.0
1880	200.0	209.6	200.0	200.0
1881	200.0	209.6	200.0	200.0
1882	200.0	209.6	200.0	200.0
1883	200.0	209.6	200.0	200.0
1884	200.0	209.6	200.0	200.0
1885	200.0	209.6	200.0	200.0
1886	200.0	209.6	200.0	200.0
1887	200.0	209.6	200.0	200.0
1888	200.0	209.6	200.0	200.0
1889	200.0	209.6	200.0	200.0
1890	200.0	209.6	200.0	200.0
1891	200.0	209.6	200.0	200.0

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

CITY PUBLIC WORKS.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	35. Blacksmiths.	35. Blacksmiths' helpers.	35. Blasters.	35. Bricklayers.	35. Carpenters.	36. Carpenters.	36. Engineers.	36. Engineers, assistant.	36. Firemen.	35. Foremen, laborers.	34. Foremen, laborers.	35. Gardeners.
1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1843	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1844	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1845	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1846	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1847	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1848	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1849	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1850	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1851	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1852	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1853	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1854	.....	.....	.....	.....	.....	87.5	90.1	.....	120.0	.....	.....	.....
1855	.....	.....	.....	.....	.....	87.5	96.0	.....	104.0	.....	118.3	.....
1856	.....	.....	.....	.....	.....	87.5	94.1	.....	98.8	.....	104.9	.....
1857	111.1	80.0	.....	.....	116.3	87.5	94.1	.....	99.6	100.0	85.7	115.4
1858	97.2	80.0	100.0	87.5	87.2	.....	98.1	100.0	99.6	87.5	120.0	100.0
1859	98.9	96.0	112.0	100.0	101.7	.....	98.1	100.0	100.0	100.0	100.0	107.7
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	97.5	83.6	.....	90.0	96.8	100.0	98.8	87.6	102.8	100.0	121.4	88.5
1862	99.7	91.2	.....	87.5	99.1	100.0	98.8	87.6	102.8	100.0	114.3	84.6
1863	111.1	108.0	.....	110.0	116.3	.....	93.6	92.0	98.8	110.0	121.4	107.7
1864	152.8	152.0	152.0	150.0	158.4	.....	95.8	92.0	98.8	150.0	157.1	146.2
1865	180.6	160.0	160.0	150.0	187.5	137.5	119.3	131.6	131.6	150.0	119.1	153.8
1866	194.4	160.0	.....	175.0	203.5	137.5	119.3	131.6	131.6	150.0	128.6	153.8
1867	194.4	160.0	.....	250.0	232.6	137.5	116.5	131.6	131.6	175.0	128.6	161.5
1868	194.4	160.0	.....	225.0	232.6	112.5	119.1	131.6	131.6	200.0	150.0	180.8
1869	194.4	160.0	200.0	.....	232.6	.....	121.4	131.6	131.6	200.0	140.6	180.8
1870	194.4	160.0	195.2	212.0	232.6	.....	121.4	131.6	131.6	200.0	128.7	184.6
1871	194.4	160.0	195.2	212.0	232.6	.....	121.4	131.6	131.6	225.0	128.6	184.6
1872	194.4	160.0	195.2	212.0	232.6	.....	121.4	164.4	164.4	225.0	162.0	184.6
1873	194.4	160.0	195.2	212.0	232.6	150.0	123.8	164.4	164.4	225.0	134.6	192.3
1874	194.4	160.0	195.2	212.0	232.6	150.0	125.9	164.4	164.4	225.0	168.6	192.3
1875	194.4	160.0	195.2	212.0	232.6	.....	125.4	164.4	164.4	225.0	126.6	192.3
1876	166.7	160.0	195.2	175.0	174.4	.....	125.4	164.4	164.4	225.0	150.0	173.1
1877	166.7	144.4	195.2	150.0	159.9	.....	125.4	164.4	164.4	200.0	126.7	153.8
1878	152.8	144.4	195.2	150.0	145.3	.....	111.3	148.0	148.0	175.0	105.7	138.5
1879	138.9	144.4	195.2	125.0	145.3	.....	111.3	148.0	148.0	150.0	168.3	138.5
1880	138.9	144.4	195.2	125.0	145.3	.....	111.3	148.0	148.0	150.0	148.7	138.8
1881	138.9	144.4	195.2	125.0	145.3	.....	114.6	148.0	148.0	175.0	128.6	153.8
1882	138.9	153.6	195.2	150.0	174.4	119.8	114.6	148.0	148.0	175.0	150.3	153.8
1883	166.7	160.0	195.2	150.0	174.4	.....	119.8	164.4	160.8	175.0	150.7	153.8
1884	166.7	160.0	195.2	175.0	174.4	.....	121.4	171.6	164.4	175.0	148.0	153.8
1885	166.7	160.0	195.2	175.0	174.4	.....	125.2	177.2	164.4	175.0	138.3	153.8
1886	166.7	160.0	195.2	175.0	203.5	.....	124.7	172.4	164.4	175.0	139.1	153.8
1887	166.7	160.0	195.2	175.0	203.5	150.0	128.0	175.6	164.4	175.0	139.4	153.8
1888	166.7	160.0	195.2	175.0	174.4	150.0	128.0	175.6	164.4	200.0	142.9	153.8
1889	166.7	160.0	195.2	175.0	174.4	150.0	129.9	175.6	164.4	200.0	139.4	153.8
1890	166.7	160.0	195.2	175.0	174.4	150.0	129.9	175.6	164.4	200.0	140.3	153.8
1891	166.7	160.0	195.2	175.0	174.4	150.0	129.9	178.0	165.2	200.0	142.9	153.8

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

CITY PUBLIC WORKS—Concluded.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	34. Laborers.	35. Laborers.	36. Laborers.	37. Laborers.	36. Machinists.	35. Masons.	34. Masons.	36. Pattern-makers.	35. Quarrymen.	35. Stonecutters.	36. Watchmen.
1840											
1841											
1842											
1843											
1844											
1845											
1846											
1847											
1848											
1849											
1850											
1851											
1852											
1853											
1854			96.2								116.7
1855	99.5		99.6								116.7
1856	99.5		100.0								116.7
1857	99.5	125.0	101.2		100.0		100.0				116.7
1858	91.0	100.0	103.8				100.0				108.3
1859	101.0	110.0	100.0			100.0	100.0			108.3	116.7
1860	100.0	100.0	100.0	100.0	100.0	100.0			100.0	100.0	100.0
1861	100.5	90.0	98.8	100.0	121.0	90.0		100.0		112.5	89.0
1862	102.0	100.0	98.8	100.0	121.0	87.5		100.0		87.5	94.3
1863	148.3	125.0	98.5	120.0	100.0	110.0				112.5	78.0
1864	132.8	180.0	115.4	140.0	133.3	150.0	100.0		172.7	150.0	73.0
1865	155.7	190.0	134.6	140.0	183.3	150.0		150.0	181.8	150.0	100.3
1866	159.2	190.0	134.6	140.0	177.7	175.0		150.0		175.0	100.3
1867	158.2	200.0	134.6	140.0	181.7	200.0		166.7		200.0	100.3
1868	164.2	200.0	136.5	140.0	180.0	225.0		166.7	204.5	212.5	100.3
1869	175.1	200.0	136.5	140.0	189.3	212.5	140.0	183.3	204.5	225.0	100.3
1870	176.6	220.0	137.3	140.0	181.7	212.0	133.3	183.3	208.6	212.0	100.3
1871	174.1	200.0	136.2		183.3	212.0	150.0	183.3	203.6	212.0	109.7
1872	199.5	200.0	141.9		186.0	212.0	150.0	200.0	203.6	212.0	109.7
1873	180.1	200.0	140.0	120.0	186.3	212.0	150.0	200.0	203.6	212.0	130.3
1874	175.6	200.0	142.3	120.0	192.3	212.0	150.0	200.0	203.6	212.0	137.0
1875	152.2	200.0	139.6	120.0	191.7	212.0	163.3	200.0	203.6	212.0	136.3
1876	153.7	200.0	134.6	120.0	190.3	175.0	133.3	200.0	203.6	175.0	136.7
1877	102.0	160.0	134.6	100.0	192.3	150.0		200.0	181.8	150.0	136.3
1878	101.5	160.0	115.4	100.0	158.7	150.0		166.7		150.0	122.3
1879	100.5	160.0	115.4	100.0	159.7	125.0		166.7	160.0	150.0	122.3
1880	124.4	160.0	117.7	100.0	161.7	125.0	116.7	166.7	160.0	150.0	122.0
1881	139.3	160.0	125.0	100.0	193.7	125.0	116.7	191.7	160.0	150.0	122.3
1882	151.2	176.0	124.2	120.0	194.3	150.0	133.3	191.7	160.0	150.0	122.3
1883	152.2	176.0	138.5	120.0	196.7	150.0	133.3	191.7	181.8	150.0	115.7
1884	151.7	176.0	135.0	120.0	193.3	175.0	133.3	191.7	181.8	175.0	126.7
1885	152.2	176.0	142.2	120.0	200.0	175.0	133.3	194.3	181.8	175.0	126.7
1886	151.7	176.0	139.6	120.0	198.0	175.0	133.3	191.7	181.8	175.0	126.0
1887	151.7	176.0	145.8	120.0	197.3	175.0	133.3	200.0	181.8	175.0	124.3
1888	170.6	176.0	145.8	120.0	197.3	175.0		200.0	181.8	175.0	124.3
1889	152.2	176.0	145.8	120.0	197.3	175.0	158.3	200.0	181.8	175.0	124.3
1890	152.2	176.0	148.8	120.0	197.3	175.0	150.0	200.0	181.8	175.0	129.7
1891	151.7	176.0	148.5	120.0	196.7	175.0	141.7	200.0	181.8	175.0	129.7

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

COTTON GOODS.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	38. Back boys	40. Back hands.	38. Balers.	40. Band boys.	38. Beam carriers.	38. Belt-men.	38. Black-smiths.	38. Bobbin men.	38. Boiler-men.	38. Boiler-mens' helpers.	38. Card grind-ers.
1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1841	.....	101.3	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	96.3	.....	.....	.....	.....	.....	.....	.....	.....	.....
1843	.....	97.5	.....	.....	.....	.....	.....	.....	.....	.....	.....
1844	.....	83.8	.....	.....	.....	.....	.....	.....	.....	.....	.....
1845	.....	90.0	.....	.....	.....	.....	.....	.....	.....	.....	.....
1846	.....	66.3	.....	.....	.....	.....	.....	.....	.....	.....	.....
1847	.....	105.0	.....	.....	.....	.....	.....	.....	.....	.....	.....
1848	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1849	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1850	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1851	84.9	.....	.....	.....	89.8	.....	.....	.....	57.1	.....	79.5
1852	81.1	70.0	.....	.....	84.4	.....	.....	.....	57.1	.....	85.4
1853	88.7	75.0	.....	.....	94.6	94.7	60.3	.....	57.1	.....	91.7
1854	88.7	75.0	.....	.....	94.6	94.7	60.3	.....	57.1	.....	91.7
1855	96.2	.....	100.0	.....	99.4	88.7	91.6	.....	71.4	.....	101.0
1856	84.9	113.8	83.0	132.3	99.4	88.7	91.6	.....	78.6	.....	97.1
1857	88.7	117.5	83.0	126.6	99.4	88.7	91.6	.....	76.3	.....	97.1
1858	88.7	.....	92.0	.....	99.4	94.7	96.4	.....	90.3	.....	93.2
1859	100.0	100.0	100.0	84.8	97.0	94.7	96.4	.....	91.4	100.0	95.6
1860	100.0	.....	100.0	100.0	100.0	100.0	100.0	.....	100.0	100.0	100.0
1861	86.8	.....	83.0	93.0	83.2	100.0	97.5	100.0	85.7	100.0	90.2
1862	73.6	.....	83.0	126.6	83.2	111.3	105.6	106.0	95.4	100.0	110.7
1863	135.8	.....	108.0	.....	129.3	111.3	105.6	123.7	100.0	115.7	110.7
1864	177.4	100.0	133.0	.....	149.7	116.7	116.5	159.0	97.7	115.7	119.5
1865	171.7	125.0	133.0	63.3	162.3	122.0	150.6	153.4	107.1	129.6	140.0
1866	186.8	137.5	167.0	126.6	174.9	150.0	158.4	144.2	114.3	138.9	141.0
1867	207.5	131.3	167.0	94.3	167.1	150.0	158.4	146.6	114.3	138.9	154.6
1868	203.8	125.0	154.0	105.1	157.5	150.0	161.2	144.2	128.6	138.9	172.7
1869	201.9	145.0	163.0	94.9	157.5	150.0	161.2	176.7	114.3	146.3	182.0
1870	203.6	.....	150.0	100.0	159.9	183.3	167.3	167.8	104.6	146.3	177.6
1871	235.8	.....	167.0	105.1	159.9	200.0	161.2	176.7	104.6	146.3	146.3
1872	235.8	.....	167.0	105.1	159.9	200.0	173.7	185.5	142.9	146.3	227.8
1873	235.8	.....	167.0	105.1	152.7	183.3	164.8	176.7	114.3	142.6	170.7
1874	211.3	.....	146.0	50.6	141.9	178.0	148.9	159.0	90.6	131.5	150.2
1875	190.6	100.0	122.0	63.3	149.7	146.7	130.4	132.9	91.4	105.1	136.8
1876	175.5	87.5	110.0	77.8	105.4	132.0	115.1	114.5	63.1	95.4	120.5
1877	175.5	96.3	110.0	88.6	123.4	132.0	115.1	114.5	72.0	95.4	124.4
1878	171.7	116.3	104.0	94.9	99.4	123.3	131.3	.....	64.6	89.8	111.3
1879	141.5	116.3	104.0	82.9	105.4	133.3	131.3	.....	75.1	106.5	120.5
1880	166.0	103.8	121.0	83.5	116.2	155.3	153.6	.....	80.3	106.5	135.6
1881	166.0	108.8	121.0	93.7	119.8	155.3	153.6	.....	80.3	106.5	124.9
1882	166.0	116.3	121.0	93.7	119.8	155.3	153.6	.....	80.3	106.5	124.9
1883	150.9	107.5	121.0	96.2	119.8	143.3	153.6	.....	87.7	106.5	125.1
1884	147.2	102.5	110.0	98.4	119.8	143.3	153.6	.....	87.7	106.5	127.1
1885	184.9	103.8	110.0	100.0	107.8	129.3	150.8	.....	87.7	106.5	120.0
1886	198.1	125.0	105.0	102.5	116.2	140.0	125.7	.....	82.9	.....	146.2
1887	200.0	133.8	105.0	88.6	116.2	140.0	125.7	.....	82.9	.....	144.4
1888	215.1	143.8	105.0	.....	122.2	140.0	125.7	.....	82.9	.....	150.2
1889	213.2	137.5	105.0	85.4	122.2	140.0	125.7	.....	82.9	.....	150.2
1890	205.7	145.0	105.0	99.4	122.2	140.0	125.7	.....	82.9	.....	152.2
1891	201.9	143.8	105.0	108.9	122.2	140.0	153.6	.....	88.6	.....	157.8

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

COTTON GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	39. Card grinders.	40. Card grinders.	41. Card grinders.	38. Card strippers.	39. Card strippers.	40. Card strippers.	41. Card strippers.	38. Carpenters.	39. Carpenters.	40. Carpenters.	41. Carpenters.
1840	.....	108.4	.....	.....	.....	88.1	.....	.....	.....	86.9	.....
1841	.....	.....	.....	.....	.....	66.2	.....	.....	.....	.....	.....
1842	.....	111.4	.....	.....	.....	93.4	.....	.....	.....	92.3	.....
1843	110.2	113.9	.....	.....	97.6	89.4	.....	.....	79.2	90.9	.....
1844	100.6	100.6	.....	.....	97.6	90.1	.....	.....	72.9	84.2	.....
1845	106.0	99.4	.....	.....	97.6	80.9	.....	.....	76.4	82.9	.....
1846	101.8	101.8	.....	.....	102.4	.....	.....	.....	81.0	84.6	.....
1847	98.8	110.2	.....	.....	102.4	104.0	.....	.....	79.9	86.6	.....
1848	109.6	108.4	.....	.....	102.4	106.9	.....	.....	87.7	89.9	.....
1849	104.8	101.8	.....	.....	102.4	101.3	.....	.....	82.0	91.3	.....
1850	107.8	98.2	.....	.....	102.4	102.0	.....	.....	87.0	88.3	.....
1851	103.0	108.4	.....	76.8	102.4	102.6	.....	.....	90.5	95.3	.....
1852	109.6	108.4	.....	81.7	102.4	101.3	.....	.....	87.7	93.0	.....
1853	100.0	100.0	.....	97.9	96.0	106.0	109.9	77.0	97.2	92.6	100.0
1854	110.2	100.0	89.8	97.9	102.4	106.0	109.9	77.0	93.0	94.6	100.0
1855	103.0	96.4	109.6	100.0	102.4	106.0	109.9	95.7	.....	104.7	116.7
1856	.....	101.2	109.6	100.0	96.0	106.0	109.9	95.7	.....	98.3	116.7
1857	.....	105.4	109.6	100.0	.....	106.0	117.4	95.7	.....	103.7	100.0
1858	.....	105.4	100.0	94.4	.....	102.0	87.6	95.4	.....	109.1	100.0
1859	100.6	100.6	100.0	100.0	96.0	102.6	102.5	101.0	96.8	101.7	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	110.2	105.4	119.8	95.8	111.2	99.3	109.9	102.3	97.5	104.0	100.0
1862	113.9	105.4	119.8	112.7	112.0	99.3	109.9	113.5	98.2	105.4	100.0
1863	110.2	106.0	.....	140.8	96.0	100.0	.....	113.5	90.5	103.0	.....
1864	150.6	180.7	.....	162.0	120.0	165.6	.....	131.6	106.3	128.2	.....
1865	160.2	178.9	.....	190.1	179.2	180.1	.....	168.1	143.0	127.9	.....
1866	201.8	189.2	209.6	190.1	179.2	180.1	175.2	164.5	146.8	141.3	200.0
1867	191.0	194.0	224.6	190.1	179.2	185.4	186.0	170.1	143.7	153.0	216.7
1868	169.9	190.4	224.6	181.7	160.0	178.1	206.6	170.1	151.4	148.0	216.7
1869	190.4	190.4	224.6	181.0	160.0	180.1	206.6	170.1	148.6	153.7	200.0
1870	173.5	188.6	179.6	164.1	146.4	180.8	206.6	170.1	148.2	146.6	200.0
1871	180.7	197.0	224.6	190.8	159.2	189.4	206.6	164.5	156.0	153.0	183.3
1872	177.7	203.0	224.6	188.0	140.0	190.1	206.6	164.5	158.5	156.7	183.3
1873	177.7	187.3	224.6	187.3	159.2	179.5	206.6	175.3	159.2	152.0	183.3
1874	171.1	168.7	201.8	171.1	162.4	167.5	200.0	156.3	158.5	142.6	150.0
1875	160.2	166.3	201.8	133.8	140.0	160.9	179.3	137.2	154.9	143.0	158.3
1876	158.4	165.7	159.9	123.9	128.0	157.6	192.6	119.4	156.7	133.2	140.0
1877	150.6	168.7	159.9	103.5	112.0	151.7	195.9	109.5	138.4	128.2	125.0
1878	150.6	169.3	159.9	109.2	112.0	148.3	195.9	116.8	141.9	126.2	125.0
1879	168.7	168.7	159.9	119.7	136.0	125.8	195.9	130.3	121.1	124.5	125.0
1880	168.7	168.7	159.9	133.8	136.0	124.5	195.9	127.6	122.2	124.2	125.0
1881	171.1	168.7	164.7	133.8	152.0	126.5	213.2	127.6	137.3	123.8	125.0
1882	182.5	168.7	169.5	133.8	160.0	117.9	213.2	127.6	140.1	121.8	122.3
1883	182.5	168.7	169.5	133.8	160.0	123.8	186.0	144.1	134.2	128.5	122.3
1884	177.7	168.7	169.5	133.8	152.0	125.8	186.0	144.1	133.5	129.9	122.3
1885	177.7	183.7	169.5	133.8	152.0	132.5	165.3	130.9	131.7	132.2	111.1
1886	172.9	183.7	169.5	157.0	160.0	132.5	165.3	124.7	133.5	131.9	111.1
1887	168.7	183.7	169.5	217.6	160.0	132.5	165.3	124.7	132.7	130.2	111.1
1888	180.7	183.7	169.5	217.6	160.0	125.8	200.0	124.7	128.2	132.9	111.1
1889	177.7	183.7	179.6	217.6	160.0	129.1	200.0	124.7	129.6	133.2	111.1
1890	177.7	183.7	179.6	217.6	160.0	135.1	200.0	124.7	135.2	135.2	111.1
1891	176.5	183.7	179.6	184.5	160.0	135.1	200.0	124.7	139.1	130.2	111.1

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

BUILDING TRADES—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	27. Carpenters.	28. Carpenters.	13. Carpenters' helpers.	17. Carpenters' helpers.	17. Carpenters' apprentices.	12. Foremen, bricklayers.	13. Foremen, carpenters.	12. Foremen, masons.	13. Foremen, painters.	9. Hod carriers.	16. Laborers.
1840	.....	71.4	.....	.....	.....	.....	.....	.....	.....	.....	.....
1841	.....	71.4	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	71.4	.....	.....	.....	.....	.....	.....	.....	.....	.....
1843	.....	71.4	.....	.....	.....	.....	.....	.....	.....	.....	.....
1844	.....	71.4	.....	.....	.....	.....	.....	.....	.....	.....	.....
1845	.....	71.4	.....	.....	.....	.....	.....	.....	.....	.....	.....
1846	.....	71.4	.....	.....	.....	.....	.....	.....	.....	.....	.....
1847	.....	85.7	.....	.....	.....	.....	.....	.....	.....	.....	.....
1848	.....	85.7	.....	.....	.....	.....	.....	.....	.....	.....	.....
1849	71.4	85.7	.....	.....	.....	.....	.....	.....	.....	.....	.....
1850	71.4	85.7	.....	.....	.....	.....	.....	.....	.....	.....	63.6
1851	71.4	85.7	.....	.....	.....	.....	.....	.....	.....	.....	74.2
1852	71.4	85.7	.....	.....	.....	.....	.....	.....	.....	91.3	74.2
1853	85.7	85.7	.....	.....	.....	.....	.....	.....	.....	.....	84.7
1854	85.7	85.7	78.3	.....	113.0	.....	89.8	.....	88.7	98.2	84.7
1855	85.7	85.7	100.0	117.1	140.2	.....	100.0	.....	88.7	91.3	84.7
1856	85.7	85.7	90.4	110.8	139.1	.....	100.0	.....	100.0	91.3	84.7
1857	85.7	85.7	100.0	119.6	108.7	.....	100.0	.....	100.0	105.9	90.3
1858	85.7	85.7	100.0	115.8	129.3	.....	100.0	.....	100.0	91.3	84.7
1859	100.0	85.7	100.0	126.6	118.5	100.0	100.0	100.0	100.0	121.5	97.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	114.3	100.0	115.8	71.7	100.0	100.0	120.0	100.0	91.3	84.7
1862	114.3	142.9	90.4	140.5	81.5	100.0	104.8	100.0	.....	91.3	84.7
1863	114.3	171.4	120.5	158.2	108.7	110.0	119.8	100.0	111.3	147.9	97.0
1864	128.6	171.4	120.5	.....	148.9	.....	134.7	120.9	116.7	145.7	116.5
1865	133.4	142.9	150.6	189.9	.....	.....	149.7	160.0	150.0	152.1	153.0
1866	151.1	142.9	210 8	189.9	.....	160.0	194.6	160.0	183.3	152.1	155.1
1867	152.3	142.9	180.7	189.9	.....	180.0	194.6	160.0	200.0	157.5	153.0
1868	153.1	142.9	165.7	189.9	.....	180.0	194.6	170.0	183.3	174.0	153.0
1869	152.9	142.9	180.7	189.9	.....	180.0	194.6	200.0	200.0	180.4	155.1
1870	152.3	142.9	180.7	189.9	.....	200.0	209.6	200.0	183.3	179.0	131.6
1871	154.3	157.1	180.7	189.9	144.6	200.0	209.6	200.0	200.0	182.6	139.4
1872	153.1	157.1	180.7	189.9	151.1	200 0	209.6	200.0	200.0	181.3	164.8
1873	152.0	157.1	180.7	174.1	144.6	200.0	209.6	200.0	200.0	181.3	168.7
1874	150.0	157.1	160.2	192.4	179.3	200.0	209.6	200.0	200.0	182.6	155.5
1875	134.6	157.1	.....	176.6	175.0	200.0	209.6	200.0	200.0	163.0	155.5
1876	132.6	157.1	150.6	176.6	162.0	200.0	194.6	180.0	166.7	143.8	169.5
1877	121.4	157.1	130.7	174.1	217.4	190.0	194.6	180.0	166.7	117.4	169.5
1878	122.6	157.1	142.8	164.6	.....	160.0	179.6	160.0	150.0	121.9	141.1
1879	126.9	157.1	138.6	181.6	127.2	140.0	179.6	160.0	150.0	116.4	141.1
1880	131.1	157.1	145.8	174.1	108.7	140.0	194.6	160.0	166.7	144.3	112.7
1881	143.7	157.1	150.0	186.1	154.3	160.0	239.5	160.0	183.3	179.5	127 1
1882	156.0	157.1	142.2	189.9	.....	200.0	239.5	200.0	166.7	181.7	127.1
1883	156.0	157.1	139.2	163.3	.....	200.0	.....	240.0	150.0	181.3	127.1
1884	153.1	157.1	150.6	177.2	108.7	200.0	.....	200.0	.....	181.7	127.1
1885	153.1	157.1	142.8	189.9	180.4	200.0	.....	200.0	.....	180.8	127.1
1886	152.9	154.3	150.6	181.6	.....	200.0	.....	200.0	.....	182.6	127.1
1887	156.0	154.3	139.8	189.9	.....	190.0	.....	200.0	.....	182.6	137.7
1888	155.1	154.3	152.4	174.1	.....	200.0	.....	200.0	.....	182.6	137.7
1889	160.3	154.3	140.4	.....	.....	200.0	.....	180.0	.....	182.6	137.7
1890	162.0	154.3	133.1	167.1	.....	180.0	.....	180.0	.....	182.6	148.3
1891	163.4	154.3	138.0	185.4	.....	180.0	.....	180.0	.....	188.5	148.3

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

COTTON GOODS—Continued.

[The figures in the heading indicate the establishment numbers as tabulated in Table XII.]

Year.	40. Engineers.	38. Entrymen.	38. Filling carriers.	40. Firemen.	41. Firemen.	39. Foremen, carpenters.	39. Foremen, machinists.	39. Foremen, yard.	40. Foremen, yard.	40. Harness hands.	40. Laborers.
1840	66.7	.....	.....	88.3	.....	.....	.....	.....	.....	.....	81.4
1841	66.7	.....	.....	88.3	.....	.....	.....	.....	.....	.....	.....
1842	66.7	.....	.....	88.3	.....	.....	.....	.....	.....	.....	81.9
1843	66.7	.....	.....	90.1	.....	.....	.....	.....	.....	.....	87.4
1844	66.7	.....	.....	90.1	.....	.....	.....	.....	.....	88.5	87.4
1845	75.0	.....	.....	90.1	.....	.....	.....	.....	.....	87.4	87.4
1846	75.0	.....	.....	93.6	.....	.....	.....	.....	.....	92.0	85.9
1847	75.0	.....	.....	95.4	.....	.....	.....	.....	.....	88.5	95.0
1848	75.0	.....	.....	91.9	.....	.....	.....	81.3	.....	98.9	104.0
1849	75.0	.....	.....	92.9	.....	.....	.....	81.3	.....	117.2	88.9
1850	75.0	.....	.....	95.4	.....	.....	.....	81.3	.....	89.7	94.5
1851	75.0	.....	25.3	95.4	.....	.....	.....	81.3	.....	96.6	93.5
1852	75.0	.....	36.1	97.2	.....	.....	.....	87.5	.....	88.5	95.5
1853	83.3	72.8	60.2	102.5	111.3	.....	.....	87.5	.....	93.1	95.0
1854	83.3	72.8	60.2	101.4	111.3	.....	.....	100.0	.....	96.6	97.5
1855	83.3	90.2	60.2	104.2	133.3	.....	.....	.....	.....	94.3	99.5
1856	83.3	90.2	60.2	104.2	133.3	.....	.....	.....	.....	.....	100.5
1857	91.7	90.2	80.7	92.9	133.3	.....	.....	.....	.....	.....	100.5
1858	91.7	92.4	100.0	95.8	100.0	.....	.....	.....	.....	.....	100.5
1859	91.7	92.4	80.7	99.3	100.0	94.3	100.0	87.5	.....	.....	102.5
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	81.5	80.7	97.9	100.0	106.9	100.0	100.0	116.7	114.9	103.0
1862	100.0	81.5	80.7	100.0	100.0	106.9	94.3	100.0	116.7	123.0	100.0
1863	100.0	108.7	110.8	104.6	.....	114.3	114.3	100.0	116.7	160.9	107.0
1864	91.7	135.9	141.0	103.5	.....	114.3	118.9	100.0	150.0	172.4	146.7
1865	95.8	135.9	155.4	107.1	.....	142.9	142.9	100.0	166.7	172.4	164.3
1866	95.8	163.0	155.4	112.0	266.7	171.4	171.4	125.0	156.7	194.3	176.4
1867	100.0	163.0	160.2	117.7	266.7	185.7	185.7	125.0	200.0	195.4	165.8
1868	100.0	154.3	150.6	116.3	233.3	200.0	228.6	125.0	200.0	188.5	174.9
1869	94.5	144.6	150.6	118.4	233.3	200.0	257.1	125.0	200.0	177.0	176.9
1870	91.7	135.9	134.9	117.7	233.3	200.0	257.1	125.0	200.0	189.7	177.9
1871	91.7	144.6	160.2	118.4	233.3	214.3	257.1	125.0	216.7	216.1	175.9
1872	97.2	144.6	160.2	114.1	233.3	214.3	257.1	125.0	216.7	221.8	178.4
1873	97.2	141.3	160.2	117.7	233.3	214.3	185.7	125.0	200.0	224.1	145.7
1874	94.5	135.9	141.0	123.7	200.0	200.0	200.0	125.0	200.0	219.5	127.6
1875	100.0	130.4	122.3	113.4	216.7	181.7	181.7	125.0	200.0	213.8	124.6
1876	100.0	108.7	106.0	113.8	188.7	200.0	200.0	125.0	200.0	214.9	122.1
1877	102.8	97.8	106.0	114.1	169.3	185.7	214.3	125.0	200.0	223.0	118.6
1878	102.8	56.5	100.0	113.1	169.3	185.7	214.3	125.0	200.0	223.0	116.1
1879	116.7	92.4	100.0	98.9	169.3	185.7	214.3	125.0	200.0	227.6	116.6
1880	116.7	107.6	116.9	98.9	169.3	171.4	171.4	125.0	208.0	227.6	116.6
1881	116.7	107.6	116.9	98.9	186.0	171.4	171.4	125.0	210.0	227.6	113.6
1882	124.0	107.6	116.9	98.2	166.7	185.7	185.7	125.0	210.0	224.1	116.6
1883	133.3	103.3	108.4	99.6	166.7	200.0	200.0	125.0	210.0	227.6	125.1
1884	133.3	103.3	108.4	105.3	166.7	200.0	200.0	125.0	210.0	241.4	127.6
1885	133.3	103.3	97.6	108.1	178.0	200.0	200.0	125.0	210.0	214.9	127.6
1886	141.7	108.7	116.9	107.1	178.0	200.0	185.7	112.5	210.0	258.6	127.6
1887	141.7	114.1	116.9	95.4	188.7	200.0	200.0	112.5	210.0	258.6	124.1
1888	141.7	114.1	122.9	103.5	188.7	200.0	200.0	112.5	210.0	258.6	126.1
1889	141.7	114.1	122.9	112.4	188.7	200.0	228.6	125.0	210.0	226.4	126.1
1890	141.7	114.1	122.9	106.4	188.7	200.0	228.6	125.0	210.0	209.2	125.1
1891	141.7	114.1	122.9	116.6	211.3	200.0	228.6	125.0	210.0	209.2	125.1

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

BUILDING TRADES—Concluded.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	22. Plasterers.	29. Plasterers.	16. Plumbers.	20. Plumbers.	24. Roofers.	21. Roofers, slate and metal.	14. Steam and gas fitters.	14. Steam and gas fitters' helpers.	17. Teamsters.	16. Tinsmiths.
1840	.....	88.8	.....	.....	.....	120.0	.....	.....	.....	.....
1841	.....	88.8	.....	.....	.....	120.0	.....	.....	.....	.....
1842	.....	88.8	.....	.....	.....	120.0	.....	.....	.....	.....
1843	.....	88.8	.....	.....	.....	120.0	.....	.....	.....	.....
1844	.....	88.8	.....	.....	.....	120.0	.....	.....	.....	.....
1845	.....	88.8	.....	.....	.....	120.0	.....	.....	.....	.....
1846	.....	88.8	.....	.....	.....	120.0	.....	.....	.....	.....
1847	.....	96.2	.....	.....	.....	120.0	.....	.....	.....	.....
1848	.....	95.6	.....	.....	.....	120.0	.....	.....	.....	.....
1849	.....	97.0	.....	.....	.....	120.0	.....	.....	.....	.....
1850	.....	96.2	75.0	.....	.....	120.0	.....	.....	.....	72.7
1851	87.5	96.2	75.0	101.3	.....	120.0	.....	.....	.....	75.6
1852	87.5	97.3	75.0	101.3	.....	120.0	.....	.....	.....	80.6
1853	87.5	94.7	75.0	115.5	.....	100.0	.....	.....	.....	89.8
1854	87.5	96.2	79.3	115.5	91.3	100.0	.....	.....	82.7	89.5
1855	87.5	97.9	87.5	115.5	90.4	100.0	.....	.....	110.7	88.6
1856	87.5	97.3	81.3	115.5	97.9	100.0	.....	.....	116.7	86.0
1857	87.5	97.9	81.3	114.7	103.3	100.0	.....	.....	133.3	95.6
1858	75.0	98.5	84.3	115.5	100.6	100.0	99.1	104.8	100.0	95.6
1859	75.0	99.4	100.0	101.3	103.6	100.0	109.3	100.0	.....	96.8
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	.....	.....	100.0
1861	100.0	97.9	100.0	100.0	89.6	120.0	.....	.....	100.0	105.7
1862	112.5	98.5	84.3	106.7	89.6	160.0	.....	.....	100.0	109.2
1863	125.0	113.3	100.0	133.3	115.5	240.0	122.9	41.8	166.7	103.2
1864	150.0	114.2	125.0	186.7	143.3	280.0	118.2	76.6	233.3	117.8
1865	150.0	135.2	150.0	186.7	164.2	320.0	133.9	73.2	233.3	142.9
1866	200.0	153.8	138.5	195.5	179.1	280.0	133.9	62.8	233.3	149.2
1867	250.0	218.9	144.8	205.6	209.0	280.0	152.7	83.7	200.0	158.7
1868	225.0	216.9	159.8	205.6	179.1	280.0	121.4	83.7	200.0	171.4
1869	250.0	216.9	162.5	205.6	195.5	280.0	115.2	62.8	200.0	174.6
1870	250.0	168.9	162.5	203.5	186.0	280.0	126.5	83.7	200.0	169.2
1871	200.0	170.1	162.5	203.5	182.4	280.0	132.7	.....	200.0	182.5
1872	200.0	168.9	159.3	203.5	189.0	280.0	135.7	.....	205.3	174.6
1873	200.0	172.5	162.5	202.7	194.9	240.0	127.1	100.8	218.7	178.7
1874	175.0	168.9	163.8	200.0	205.7	240.0	136.0	76.6	266.7	185.1
1875	150.0	170.1	163.8	200.0	184.2	240.0	128.3	97.5	218.0	174.6
1876	125.0	137.0	158.3	186.7	184.2	240.0	126.5	102.9	196.7	174.6
1877	125.0	114.5	145.8	160.0	189.0	200.0	121.4	62.8	156.0	158.7
1878	125.0	114.5	131.3	160.0	189.0	200.0	126.5	62.8	166.7	150.8
1879	125.0	99.4	131.3	160.0	149.3	200.0	114.6	76.6	166.7	150.8
1880	150.0	107.4	121.8	160.0	144.2	200.0	128.3	69.8	166.7	142.9
1881	225.0	109.8	125.0	186.7	158.2	240.0	121.4	83.7	200.0	156.2
1882	200.0	135.2	125.0	186.7	175.2	240.0	122.9	83.7	200.0	158.7
1883	200.0	174.9	131.3	186.7	169.3	260.0	127.4	100.8	196.0	158.7
1884	200.0	207.1	131.3	186.7	169.3	280.0	128.0	.....	200.0	158.7
1885	200.0	207.1	131.3	186.7	174.0	280.0	130.7	83.7	200.0	158.7
1886	200.0	207.1	137.5	186.7	175.2	280.0	124.4	94.1	183.3	150.8
1887	200.0	207.1	137.5	186.7	189.0	280.0	109.5	94.1	211.3	155.9
1888	200.0	207.1	137.5	186.7	194.0	280.0	124.4	104.6	213.3	155.9
1889	200.0	207.1	137.5	186.7	209.0	280.0	126.5	94.1	.....	155.9
1890	225.0	207.1	137.5	186.7	209.0	280.0	117.3	104.6	211.3	155.9
1891	200.0	189.3	125.0	186.7	209.0	280.0	117.0	.....	180.0	169.2

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

COTTON GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	40. Master machinists.	38. Oilers.	38. Overseers, carding department.	39. Overseers, carding department.	40. Overseers, carding department.	41. Overseers, carding department.	38. Overseers, cloth room.	39. Overseers, cloth room.	40. Overseers, cloth room.	38. Overseers, dressing department.
1840	100.0	.....	.....	.....	80.0	.....	.....	.....	70.4	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	100.0	.....	.....	.....	80.0	.....	.....	.....	.....	.....
1843	100.0	.....	.....	100.0	80.0	.....	.....	66.7	70.4	.....
1844	100.0	.....	.....	100.0	80.0	.....	.....	77.8	70.4	.....
1845	100.0	.....	.....	100.0	80.0	.....	.....	77.8	70.4	.....
1846	100.0	.....	.....	100.0	80.0	.....	.....	88.9	70.4	.....
1847	100.0	.....	.....	100.0	80.0	.....	.....	88.9	88.0	.....
1848	100.0	.....	.....	100.0	80.0	.....	.....	88.9	88.0	.....
1849	100.0	.....	.....	100.0	80.0	.....	.....	88.9	88.0	.....
1850	100.0	.....	.....	100.0	80.0	.....	.....	88.9	.....	.....
1851	100.0	50.0	75.0	100.0	80.0	.....	.....	88.9	.....	55.7
1852	100.0	64.3	75.0	100.0	80.0	.....	.....	111.1	.....	55.7
1853	100.0	95.2	83.3	75.0	.....	114.3	.....	111.1	88.0	61.0
1854	100.0	95.2	83.3	75.0	.....	114.3	.....	77.8	70.4	61.0
1855	100.0	95.2	100.0	87.5	.....	114.3	100.0	.....	88.0	83.3
1856	100.0	95.2	100.0	.....	100.0	114.3	112.5	.....	88.0	83.3
1857	100.0	95.2	100.0	.....	100.0	85.7	112.5	.....	96.5	100.0
1858	100.0	100.0	100.0	.....	100.0	85.7	95.5	.....	100.0	100.0
1859	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	112.5	107.1	83.3	100.0	100.0	100.0	83.5	100.0	105.6	83.3
1862	112.5	107.1	83.3	100.0	100.0	100.0	83.5	100.0	105.6	83.3
1863	112.5	107.1	100.0	100.0	100.0	.....	100.0	77.8	105.6	100.0
1864	150.0	111.9	117.3	100.0	110.0	.....	125.0	77.8	105.6	117.3
1865	150.0	131.0	117.3	112.5	110.0	.....	112.5	100.0	123.2	116.7
1866	162.5	241.7	133.3	125.0	120.0	128.0	137.5	111.1	123.2	133.3
1867	162.5	225.0	141.7	125.0	120.0	142.9	137.5	122.2	123.2	133.3
1868	162.5	256.0	141.7	137.5	120.0	142.9	137.5	122.2	123.2	133.3
1869	162.5	263.1	150.0	137.5	120.0	142.9	137.5	133.3	123.2	100.0
1870	162.5	260.7	150.0	100.0	120.0	142.9	137.5	133.3	123.2	100.0
1871	162.5	301.2	148.3	104.0	120.0	142.9	121.0	133.3	193.7	100.0
1872	162.5	307.1	150.0	112.5	120.0	142.9	137.5	133.3	193.7	100.0
1873	162.5	303.6	150.0	125.0	120.0	142.9	137.5	133.3	211.3	100.0
1874	162.5	261.9	166.7	133.5	120.0	128.6	137.5	133.3	190.1	100.0
1875	175.0	239.3	158.3	136.3	120.0	135.7	137.5	121.1	211.3	100.0
1876	175.0	228.6	135.0	136.3	120.0	119.1	157.5	121.1	176.1	100.0
1877	175.0	209.5	150.0	136.3	120.0	107.1	125.0	121.1	176.1	116.7
1878	187.5	195.2	142.7	136.3	120.0	107.1	119.0	121.1	140.8	118.7
1879	200.0	188.1	142.7	162.5	160.0	107.1	119.0	133.3	140.8	133.3
1880	212.5	214.3	150.0	162.5	160.0	107.1	125.0	133.3	176.1	166.7
1881	225.0	214.3	150.0	162.5	160.0	128.6	125.0	133.3	176.1	166.7
1882	225.0	214.3	150.0	175.0	200.0	128.6	125.0	144.4	176.1	166.7
1883	225.0	203.6	150.0	162.5	200.0	128.6	125.0	144.4	193.7	176.7
1884	225.0	196.4	150.0	162.5	200.0	128.6	125.0	144.4	211.3	176.7
1885	225.0	196.4	150.0	162.5	200.0	115.7	125.0	138.9	211.3	176.7
1886	250.0	203.6	129.7	175.0	200.0	115.7	112.5	155.6	211.3	176.7
1887	250.0	203.6	129.7	200.0	200.0	128.6	121.5	155.6	246.5	176.7
1888	250.0	210.7	133.3	200.0	200.0	128.6	125.0	177.8	246.5	176.7
1889	250.0	216.7	133.3	250.0	200.0	128.6	125.0	177.8	246.5	176.7
1890	250.0	222.6	133.3	250.0	200.0	128.6	125.0	177.8	246.5	176.7
1891	250.0	273.6	133.3	250.0	200.0	128.6	150.0	177.8	281.7	176.7

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

COTTON GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	39. Overseers, dressing department.	40. Overseers, dressing department.	38. Overseers, spinning department.	39. Overseers, spinning department.	40. Overseers, spinning department.	41. Overseers, spinning department.	41. Overseers, spooling department.	38. Overseers, weaving department.	39. Overseers, weaving department.	40. Overseers, weaving department.
1840	.....	82.0	.....	.....	.....	.....	.....	.....	.....	88.9
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	82.0	.....	.....	.....	.....	.....	.....	.....	88.9
1843	85.7	82.0	.....	100.0	.....	.....	.....	.....	87.5	88.9
1844	114.3	91.3	.....	100.0	.....	.....	.....	.....	87.5	88.9
1845	114.3	82.0	.....	100.0	.....	.....	.....	.....	100.0	88.9
1846	114.3	82.0	.....	100.0	.....	.....	.....	.....	100.0	88.9
1847	114.3	82.0	.....	75.0	.....	.....	.....	.....	87.5	88.9
1848	114.3	95.6	.....	100.0	.....	.....	.....	.....	100.0	88.9
1849	114.3	109.3	.....	100.0	.....	.....	.....	.....	100.0	88.9
1850	114.3	109.3	.....	100.0	.....	.....	.....	.....	100.0	88.9
1851	114.3	109.3	70.8	100.0	.....	.....	.....	74.5	100.0	88.9
1852	114.3	109.3	70.8	100.0	.....	.....	.....	80.6	100.0	88.9
1853	114.3	109.3	79.2	100.0	.....	100.0	.....	84.7	100.0	88.9
1854	114.3	109.3	79.2	112.5	.....	107.7	.....	84.7	100.0	88.9
1855	114.3	109.3	100.0	112.5	.....	107.7	.....	100.0	100.0	88.9
1856	.....	109.3	100.0	.....	100.0	107.7	.....	100.0	.....	100.0
1857	.....	109.3	100.0	.....	100.0	107.7	.....	100.0	.....	100.0
1858	.....	136.6	100.0	.....	100.0	92.3	76.9	100.0	.....	94.4
1859	100.0	136.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0	105.6
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	100.0	83.3	100.0	100.0	100.0	100.0	85.0	100.0	111.1
1862	100.0	136.6	83.3	100.0	100.0	97.5	100.0	85.0	100.0	111.1
1863	114.3	136.6	100.0	100.0	100.0	.....	.....	102.9	100.0	111.1
1864	114.3	150.3	112.8	100.0	120.0	.....	.....	129.1	100.0	96.2
1865	128.6	163.9	116.7	87.5	110.0	.....	.....	121.1	112.5	101.8
1866	142.9	163.9	133.3	125.0	120.0	138.5	138.5	157.4	137.5	111.1
1867	142.9	163.9	133.3	137.5	120.0	153.8	153.8	157.4	150.0	114.9
1868	142.9	163.9	133.3	137.5	120.0	153.8	153.8	157.4	150.0	100.0
1869	114.3	163.9	133.3	137.5	120.0	153.8	153.8	157.4	150.0	100.0
1870	114.3	163.9	133.3	100.0	120.0	153.8	153.8	163.4	162.5	111.1
1871	92.6	163.9	116.7	81.3	120.0	153.8	153.8	163.4	175.0	111.1
1872	114.3	163.9	116.7	85.5	120.0	153.8	153.8	151.3	187.5	111.1
1873	128.6	163.9	116.7	112.5	160.0	153.8	153.8	151.3	187.5	100.0
1874	200.0	163.9	125.0	131.3	120.0	138.5	138.5	154.2	175.0	100.0
1875	155.7	163.9	133.3	130.8	160.0	146.2	146.2	150.8	150.0	100.0
1876	142.9	163.9	125.0	162.5	220.0	128.3	128.3	193.7	150.0	88.9
1877	114.3	163.9	125.0	150.0	200.0	115.4	115.4	157.4	150.0	88.9
1878	114.3	163.9	130.0	150.0	200.0	115.4	115.4	184.0	150.0	88.9
1879	185.7	163.9	130.0	200.0	200.0	115.4	115.4	184.0	225.0	133.3
1880	185.7	163.9	137.7	200.0	200.0	115.4	115.4	166.1	200.0	133.3
1881	185.7	163.9	137.7	212.5	130.0	138.5	138.5	175.5	225.0	133.3
1882	185.7	163.9	137.7	187.5	130.0	169.2	138.5	175.5	237.5	133.3
1883	185.7	163.9	137.7	200.0	160.0	138.5	138.5	175.5	237.5	177.8
1884	185.7	163.9	137.7	200.0	160.0	138.5	138.5	96.9	237.5	177.8
1885	177.1	163.9	124.0	200.0	160.0	124.6	124.6	96.9	250.0	177.8
1886	185.7	163.9	135.8	205.0	160.0	138.5	124.6	174.3	275.0	177.8
1887	314.3	163.9	137.7	205.0	160.0	138.5	184.6	188.4	300.0	177.8
1888	314.3	163.9	151.7	205.0	160.0	138.5	184.6	193.7	300.0	177.8
1889	314.3	177.6	151.7	205.0	160.0	138.5	184.6	193.7	250.0	177.8
1890	228.6	177.6	151.7	256.3	160.0	138.5	184.6	193.7	250.0	222.2
1891	257.1	170.3	138.3	275.0	160.0	138.5	184.6	193.7	250.0	222.2

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

COTTON GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	41. Overseers, weaving department.	38. Painters.	39. Painters.	38. Pickers.	39. Pickers.	41. Pickers, (boys).	40. Picking room hands.	41. Piecers, front (boys).	41. Piecers, back, (boys).	38. Roller coverers.
1840										
1841										
1842										
1843					93.2					
1844					93.2					
1845					89.1					
1846					87.1					
1847					87.8					
1848					87.8					
1849					87.8		113.6			
1850					89.8		102.3			
1851				76.8	87.8		102.3			
1852				78.9	91.8		96.6			116.7
1853	100.0			94.4	87.1	74.6	94.9	57.3	72.4	116.7
1854	128.6			94.4	94.6	74.6	95.5	70.9	86.2	116.7
1855	128.6	104.4		100.0	94.6	100.0	97.7	100.0	86.2	86.0
1856	128.6	104.4		100.0		100.0	101.1	100.0	86.2	86.0
1857	128.6	104.4		94.4		100.0	100.6	100.0	86.2	86.0
1858	114.3	97.8		100.0		94.0	100.0	95.7	86.2	89.0
1859	100.0	104.4	103.1	100.0	100.0	100.0	97.2	100.0	100.0	81.3
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	114.3	104.0	110.5	110.6	102.0	106.0	94.9	100.0	100.0	100.0
1862	85.7	107.4	111.4	109.2	102.0	100.0	94.3	57.3	100.0	111.3
1863		107.4	95.2	145.8	112.9		102.3			111.3
1864		113.2	96.5	181.0	136.1		151.1			122.0
1865		134.9	130.3	193.0	204.1		156.3			141.7
1866	157.1	156.3	131.6	200.0	171.4	137.3	174.4	128.2	143.1	151.3
1867	171.4	156.3	137.3	200.0	171.4	137.3	181.8	142.7	179.3	151.3
1868	171.4	159.2	152.2	187.3	141.5	129.9	163.1	142.7	186.2	166.7
1869	171.4	159.2	175.4	187.3	144.2	149.3	170.5	170.9	186.2	151.3
1870	171.4	159.2	158.3	170.4	161.2	149.3	168.2	142.7	186.2	159.7
1871	171.4	160.7	171.1	194.4	155.8	149.3	165.9	142.7	172.4	159.7
1872	171.4	160.7	166.2	200.0	161.2	149.3	173.9	170.9	201.7	161.0
1873	171.4	160.7	197.4	211.3	183.7	149.3	156.3	156.4	201.7	163.0
1874	171.4	142.3	180.7	170.4	160.5	149.3	144.3	142.7	215.5	146.3
1875	157.1	179.0	164.5	137.3	159.2	149.3	142.6	170.9	222.4	126.7
1876	157.1	157.1	182.9	133.8	139.5	123.9	139.8	128.2	172.4	101.7
1877	124.3	149.6	140.4	133.8	117.0	106.0	139.2	142.7	165.5	101.7
1878	124.3	91.9	140.4	125.4	125.9	106.0	140.3	142.7	165.5	103.3
1879	124.3	91.9	131.6	126.1	117.7	106.0	131.8	113.7	165.5	103.3
1880	114.3	128.7	134.6	147.2	117.7	106.0	131.8	88.8	179.3	100.0
1881	142.9	140.8	143.4	147.2	136.7	137.3	129.0	96.6	179.3	100.0
1882	142.9	140.8	160.1	147.2	144.9	137.3	134.1	113.7	172.4	100.0
1883	157.1	158.1	153.5	147.2	146.9	149.3	128.4	128.2	172.4	110.0
1884	157.1	158.1	121.5	147.2	145.6	149.3	134.7	128.2	172.4	110.0
1885	142.9	158.1	132.9	147.2	153.1	129.9	134.7	128.2	158.6	126.0
1886	142.9	136.0	127.2	140.8	151.7	149.3	125.0	128.2	158.6	136.0
1887	142.9	136.1	122.8	140.8	154.4	149.3	125.0	128.2	158.6	136.0
1888	142.9	126.1	111.4	140.8	141.5	149.3	123.9	128.2	158.6	136.0
1889	142.9	126.1	117.1	140.8	139.5		130.7	128.2	172.4	136.0
1890	142.9	126.1	128.9	140.8	144.2		126.7	142.7	172.4	136.0
1891	171.4	126.1	125.4	149.3	144.2		126.7	156.4	172.4	136.0

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

COTTON GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	40. Room hands.	41. Roping boys.	40. Roving hands.	38. Scrubbers.	38. Second hands.	39. Second hands.	40. Second hands.	41. Second hands.	39. Section hands.	40. Section hands.
1840	.....	.....	.....	.....	.....	.....	76.4	.....	.....	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	.....	.....	.....	.....	.....	77.4	.....	.....	68.0
1843	.....	.....	.....	.....	.....	94.5	78.5	.....	78.3	68.0
1844	.....	.....	.....	.....	.....	96.2	79.5	.....	82.9	56.3
1845	.....	.....	.....	.....	.....	93.2	84.2	.....	85.5	64.0
1846	.....	.....	.....	.....	.....	95.3	84.2	.....	96.7	.....
1847	.....	.....	.....	.....	.....	99.1	84.2	.....	94.1	68.0
1848	.....	.....	.....	.....	.....	100.9	84.2	.....	96.7	84.6
1849	.....	.....	.....	.....	.....	101.3	82.2	.....	97.4	75.2
1850	.....	.....	.....	.....	.....	101.3	84.2	.....	97.4	68.4
1851	.....	.....	.....	.....	78.0	96.6	84.2	.....	104.6	96.6
1852	.....	.....	.....	.....	79.5	91.5	84.2	.....	103.9	.....
1853	.....	49.3	.....	.....	83.5	103.4	87.5	100.9	113.3	.....
1854	.....	55.2	.....	.....	83.5	111.1	84.8	102.3	110.5	.....
1855	.....	80.6	.....	.....	108.4	113.2	87.5	98.2	102.0	.....
1856	.....	94.0	176.3	.....	108.1	.....	89.9	99.5	.....	102.8
1857	.....	94.0	176.3	.....	104.8	.....	92.6	108.7	.....	108.0
1858	.....	74.6	176.3	100.0	97.1	.....	99.0	89.4	103.9	104.4
1859	100.0	100.0	.....	100.0	100.0	95.3	99.0	95.4	88.2	108.3
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	111.9	100.0	101.3	83.3	76.6	102.6	97.0	105.5	105.9	108.3
1862	111.9	123.9	.....	83.3	78.4	101.3	97.3	110.1	109.2	108.4
1863	111.9	.....	.....	111.1	100.7	98.7	96.6	.....	112.5	.....
1864	100.7	.....	144.7	128.9	113.2	127.7	108.8	.....	108.6	108.4
1865	114.2	.....	173.7	148.9	139.2	108.4	114.5	.....	108.6	128.8
1866	152.2	180.6	178.9	164.4	157.1	148.9	118.5	162.8	184.9	121.6
1867	169.4	180.6	200.0	164.4	159.7	159.6	126.2	181.2	176.3	129.2
1868	161.9	180.6	196.1	160.0	153.8	161.7	124.9	181.2	160.5	108.4
1869	148.5	198.5	196.1	152.2	152.7	155.7	125.6	181.2	153.9	144.6
1870	178.4	198.5	211.8	156.7	148.7	140.0	128.2	181.2	168.8	128.6
1871	162.7	198.5	231.6	168.9	157.5	148.9	128.6	181.2	193.4	.....
1872	159.0	198.5	252.6	168.9	162.6	141.7	128.2	176.6	198.0	125.2
1873	152.2	149.3	228.9	168.9	163.4	152.3	128.6	174.2	198.3	108.8
1874	154.5	149.3	205.3	145.6	151.6	155.3	126.6	145.9	191.4	120.9
1875	155.2	174.6	193.4	126.7	154.9	148.5	125.9	158.2	188.2	140.6
1876	159.7	198.5	182.9	123.3	127.5	160.0	128.2	139.4	190.8	148.0
1877	157.5	174.6	168.4	98.9	119.0	141.3	129.0	132.1	181.6	140.6
1878	159.7	174.6	167.1	115.6	115.0	125.2	130.3	135.2	183.8	140.0
1879	114.9	174.6	146.1	115.6	115.4	150.6	130.0	135.8	187.5	121.8
1880	114.9	174.6	148.7	120.0	127.5	151.5	132.2	113.3	187.5	122.0
1881	114.9	174.6	136.8	127.8	128.9	155.7	136.7	125.7	190.1	116.0
1882	117.2	186.6	148.7	127.8	128.9	162.6	137.7	129.4	205.9	128.2
1883	132.1	174.6	131.6	131.1	127.8	165.5	133.0	128.4	198.0	105.6
1884	134.3	174.6	150.0	131.1	122.3	168.1	118.9	128.4	204.6	104.0
1885	142.5	155.2	163.2	131.1	117.9	168.5	126.6	117.0	201.3	98.8
1886	142.5	155.2	176.3	116.7	122.7	165.5	126.6	116.1	208.9	102.8
1887	135.8	155.2	198.7	150.0	128.2	165.5	127.6	119.3	208.6	112.6
1888	144.8	161.2	225.0	154.4	138.8	165.1	127.6	119.3	208.6	117.2
1889	146.3	174.6	226.3	154.4	138.8	169.8	127.6	120.6	208.3	105.2
1890	153.7	198.5	211.8	154.4	138.8	171.5	140.7	120.6	208.3	104.0
1891	156.2	198.5	294.2	154.4	145.4	171.5	143.1	142.2	211.8	128.8

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

COTTON GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	39. Slasher tenders	41. Slubber tenders	39. Speeders.	40. Speeders.	41. Speeder tenders	39. Spinners, frame.	40. Spinners, frame.	41. Spinners, frame.	41. Spinners, mule.	38. Spoolers.
1840	.....	.....	.....	95.0	.....	.....	.....	.....	.....	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	.....	.....	97.0	.....	.....	.....	.....	.....	.....
1843	.....	.....	84.6	90.1	.....	93.7	.....	.....	.....	.....
1844	.....	.....	87.5	90.1	.....	89.5	.....	.....	.....	.....
1845	.....	.....	.....	88.1	.....	92.6	.....	.....	.....	.....
1846	.....	.....	88.5	89.1	.....	92.6	.....	.....	.....	.....
1847	.....	.....	87.5	97.0	.....	93.7	.....	.....	.....	.....
1848	.....	.....	91.3	102.0	.....	92.6	.....	.....	.....	.....
1849	.....	.....	84.6	102.0	.....	94.7	.....	.....	.....	.....
1850	.....	.....	88.5	103.0	.....	91.6	.....	.....	.....	.....
1851	.....	.....	92.3	98.0	.....	87.4	.....	.....	.....	120.0
1852	.....	.....	86.5	96.0	.....	90.5	.....	.....	.....	120.0
1853	.....	92.1	100.0	101.0	100.0	86.3	.....	79.5	91.7	120.0
1854	.....	105.3	102.9	100.0	100.0	98.9	.....	113.7	91.7	120.0
1855	74.1	105.3	107.7	104.0	100.0	89.5	.....	113.7	103.4	120.0
1856	.....	94.7	.....	102.0	100.0	.....	.....	113.7	103.4	120.0
1857	.....	118.4	.....	102.0	108.6	.....	.....	113.7	103.4	100.0
1858	.....	94.7	.....	97.0	85.7	103.2	.....	91.8	86.2	92.0
1859	83.3	93.4	92.3	99.0	92.9	94.7	100.0	104.1	91.7	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	.....	100.0	100.0	100.0
1861	83.3	102.6	103.8	101.0	104.3	96.8	.....	100.0	103.4	84.0
1862	84.3	93.4	103.8	101.0	94.3	102.1	.....	132.9	103.4	80.0
1863	97.2	.....	92.3	93.1	.....	96.8	.....	.....	.....	105.0
1864	111.1	.....	105.8	143.6	.....	113.7	80.7	.....	.....	95.0
1865	127.3	.....	109.6	151.5	.....	117.9	76.6	.....	.....	.....
1866	148.1	134.2	160.6	154.5	115.7	190.5	77.1	137.0	189.7	200.0
1867	194.9	157.9	160.6	161.4	148.6	191.6	56.8	142.5	206.9	200.0
1868	175.9	163.2	160.6	158.4	162.9	169.5	76.0	142.5	206.9	192.0
1869	162.5	173.7	160.6	160.4	171.4	178.9	78.1	142.5	241.4	208.0
1870	181.0	156.6	160.6	158.4	145.7	225.3	86.5	147.9	241.4	184.0
1871	174.5	153.9	204.8	166.3	154.3	216.8	82.3	182.2	241.4	200.0
1872	177.3	160.5	212.5	172.3	150.0	232.6	85.4	182.2	241.4	200.0
1873	162.0	163.2	225.0	156.4	162.9	194.7	104.7	182.2	241.4	200.0
1874	139.8	148.7	184.6	144.6	120.0	217.9	84.9	194.5	206.9	172.0
1875	159.7	125.0	173.1	128.7	102.9	190.5	85.9	205.5	232.4	161.0
1876	154.2	123.7	179.8	134.7	121.4	177.9	63.5	176.7	204.1	138.0
1877	148.1	113.2	145.2	128.7	110.0	184.2	64.1	165.8	184.1	130.0
1878	148.1	123.7	162.5	123.8	105.7	194.7	67.2	165.8	184.1	130.0
1879	138.9	114.5	167.3	131.7	104.3	211.6	72.9	182.2	184.1	130.0
1880	133.8	105.3	166.3	127.7	102.9	212.6	73.4	182.2	189.7	138.0
1881	115.7	128.9	164.4	120.8	114.3	213.7	83.3	182.2	206.9	152.0
1882	135.6	125.0	173.1	121.8	112.9	227.4	82.8	182.2	241.4	152.0
1883	125.0	105.3	174.0	114.9	102.9	218.9	84.4	182.2	241.4	152.0
1884	131.9	117.1	172.1	132.7	112.9	221.1	79.7	194.5	227.6	145.0
1885	135.6	93.4	169.2	129.7	97.1	217.9	77.6	182.2	227.6	145.0
1886	148.1	98.7	172.1	142.6	94.3	221.1	77.6	182.2	227.6	139.0
1887	157.4	101.3	179.8	126.7	97.1	244.2	78.6	216.4	206.9	149.0
1888	157.4	100.0	178.8	133.7	100.0	246.3	79.2	228.8	206.9	155.0
1889	149.5	107.9	210.6	140.6	100.0	245.3	82.8	245.2	206.9	142.0
1890	152.8	107.9	206.7	140.6	105.7	247.4	84.9	245.2	248.3	142.0
1891	152.8	113.2	215.4	165.8	114.3	256.8	87.5	274.0	262.8	146.0

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

METALS AND METALLIC GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	72. Boiler tenders.	71. Carpenters.	72. Carpenters.	72. Carpenters' helpers.	72. Coal wheelers.	66. Coremakers.	73. Coremakers.	74. Coremakers.	66. Cupolamen.	71. Draughtsmen.
1840	.....	.....	76.9	.....	.....	.....	.....	.....	.....	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	.....	76.9	.....	.....	.....	.....	.....	.....	.....
1843	.....	.....	76.9	100.0	83.8	.....	.....	.....	.....	.....
1844	.....	.....	76.9	.....	.....	.....	.....	.....	.....	.....
1845	.....	.....	71.1	.....	.....	.....	.....	.....	.....	.....
1846	.....	.....	74.5	.....	97.8	.....	.....	.....	.....	.....
1847	.....	84.9	.....	.....	111.7	.....	.....	.....	.....	.....
1848	.....	88.8	82.2	.....	125.7	.....	.....	.....	.....	80.8
1849	171.4	90.3	.....	76.7	125.7	.....	.....	.....	.....	80.8
1850	100.0	90.6	76.9	69.3	125.7	.....	.....	.....	.....	80.8
1851	.....	92.7	78.8	88.3	111.7	.....	.....	.....	.....	84.8
1852	100.0	92.7	74.5	.....	.....	.....	.....	.....	.....	90.3
1853	.....	93.0	75.1	107.4	103.4	.....	.....	.....	.....	91.3
1854	.....	99.0	79.4	.....	103.9	.....	.....	91.7	.....	98.2
1855	114.3	99.2	79.4	107.4	103.9	.....	.....	91.7	.....	100.9
1856	100.0	100.5	76.9	107.4	119.0	.....	100.0	91.7	.....	100.9
1857	.....	101.6	96.3	114.7	103.9	.....	100.0	91.7	.....	94.2
1858	96.6	94.3	84.6	.....	111.7	.....	100.0	100.0	.....	103.9
1859	100.0	94.0	100.0	100.0	111.7	100.0	100.0	100.0	100.0	92.4
1860	.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	.....	101.0	92.3	.....	102.8	100.0	100.0	100.0	100.0	98.2
1862	.....	102.9	.....	148.5	103.9	100.0	100.0	116.7	102.8	100.0
1863	93.1	108.4	123.1	171.2	125.7	100.0	100.0	116.7	110.4	105.5
1864	150.3	129.5	126.2	107.4	164.2	100.0	124.7	116.7	114.2	127.3
1865	.....	136.3	134.5	214.7	198.3	120.0	149.8	141.7	136.0	155.0
1866	173.1	140.5	129.5	204.3	197.2	120.0	149.8	166.7	134.1	171.4
1867	.....	150.1	148.3	168.7	179.3	120.0	149.8	166.7	134.1	187.8
1868	177.1	161.6	150.5	184.0	176.5	133.2	149.8	166.7	152.6	188.0
1869	180.0	161.9	153.8	184.0	178.2	133.2	149.8	166.7	165.9	213.4
1870	171.4	167.6	153.8	.....	191.1	133.2	149.8	166.7	165.9	220.1
1871	180.0	169.7	153.8	.....	178.2	133.2	119.9	166.7	165.9	223.3
1872	180.0	173.1	158.2	.....	176.5	133.2	104.9	150.0	165.9	223.3
1873	194.3	171.3	157.2	184.0	177.1	143.6	112.4	150.0	170.1	192.4
1874	177.1	156.7	144.9	153.4	177.1	143.6	119.9	.....	181.5	201.6
1875	.....	156.7	136.9	168.7	156.4	146.8	104.9	.....	181.5	201.6
1876	171.4	141.0	161.5	218.4	142.5	.....	104.9	.....	161.6	189.1
1877	149.1	132.9	161.5	234.4	143.0	.....	97.4	.....	161.6	166.7
1878	172.0	118.5	153.8	214.7	141.9	.....	97.4	141.7	161.6	179.2
1879	.....	116.4	153.8	201.8	126.3	120.0	97.4	141.7	161.6	178.2
1880	167.4	114.9	125.5	198.8	156.4	120.0	97.4	133.3	146.0	179.2
1881	190.3	123.0	133.8	185.9	172.6	120.0	104.9	150.0	161.6	200.2
1882	190.3	127.4	133.2	174.2	178.8	120.0	112.4	150.0	157.8	238.3
1883	197.1	133.7	135.1	215.3	164.2	120.0	127.3	166.7	152.6	238.3
1884	189.1	130.8	137.2	203.1	150.8	120.0	127.3	166.7	152.6	238.3
1885	200.0	122.5	131.1	206.7	138.0	120.0	112.4	141.7	157.8	189.1
1886	200.0	117.8	138.5	204.3	139.1	100.0	112.4	141.7	137.9	180.8
1887	200.0	133.9	139.7	184.0	162.6	120.0	112.4	141.7	151.7	212.2
1888	200.0	136.6	140.6	214.7	158.1	120.0	112.4	141.7	160.7	220.7
1889	200.0	138.1	139.1	165.6	158.1	120.0	127.3	141.7	155.9	233.5
1890	200.0	143.1	132.9	214.7	156.4	120.0	127.3	141.7	156.4	253.6
1891	200.0	137.6	138.2	.....	162.6	120.0	127.3	141.7	156.4	237.8

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

COTTON GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	41. Warpers.	41. Waste carriers (boys).	38. Waste hands.	41. Waste pickers (boys).	41. Watchmen.	38. Watchmen.	39. Watchmen.	40. Watchmen.	39. Weavers.	40. Weavers.
1840	.....	.....	.....	.....	.....	.....	.....	103.8	.....	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	.....	.....	.....	.....	.....	.....	103.8	.....	.....
1843	.....	.....	.....	.....	.....	.....	104.7	96.7	113.0	.....
1844	.....	.....	.....	.....	.....	.....	105.2	96.7	83.7	.....
1845	.....	.....	.....	.....	.....	.....	108.1	100.0	96.7	.....
1846	.....	.....	.....	.....	.....	.....	135.5	92.9	87.0	100.0
1847	.....	.....	.....	.....	.....	.....	115.7	94.8	92.4	100.0
1848	.....	.....	.....	.....	.....	.....	97.1	100.0	96.7	100.0
1849	.....	.....	.....	.....	.....	.....	97.1	100.0	91.3	100.0
1850	.....	.....	.....	.....	.....	.....	97.1	100.0	93.5	100.0
1851	.....	.....	.....	.....	.....	.....	97.1	100.0	101.1	100.0
1852	.....	.....	68.2	.....	.....	.....	97.1	100.0	88.0	100.0
1853	99.0	100.0	75.5	96.2	88.4	.....	93.6	99.5	100.0	100.0
1854	86.2	111.9	75.5	115.5	100.0	.....	.....	99.5	101.1	100.0
1855	71.7	123.9	81.8	115.5	100.0	97.0	.....	99.5	100.0	100.0
1856	94.5	123.9	81.8	115.5	110.9	97.0	.....	100.0	.....	100.0
1857	104.8	123.9	81.8	100.0	110.9	97.0	.....	100.0	.....	100.0
1858	82.8	111.9	90.9	100.0	100.0	94.0	.....	100.0	132.6	100.0
1859	96.6	111.9	98.2	86.2	100.0	100.0	96.5	100.0	110.9	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	107.6	106.0	90.9	100.0	100.0	81.2	100.0	94.3	109.8	106.3
1862	96.6	106.0	86.4	100.0	100.0	81.2	100.0	.....	112.0	106.3
1863	.....	.....	120.9	.....	.....	106.8	100.0	94.3	117.4	109.4
1864	.....	.....	136.4	.....	.....	112.8	116.3	134.0	128.3	115.6
1865	.....	.....	131.8	.....	.....	131.6	145.3	157.5	140.2	125.0
1866	138.6	137.3	113.6	201.7	199.2	150.4	174.4	165.1	185.9	125.0
1867	137.9	129.9	127.3	208.6	199.2	150.4	174.4	165.1	189.1	125.0
1868	160.7	149.3	136.4	208.6	199.2	143.6	174.4	165.1	202.2	131.3
1869	144.8	149.3	127.3	229.3	199.2	143.6	174.4	165.1	175.0	131.3
1870	144.8	149.3	118.2	229.3	199.2	131.6	174.4	165.1	214.1	134.4
1871	160.7	174.6	136.4	229.3	199.2	150.4	174.4	163.7	237.0	134.4
1872	165.5	174.6	136.4	229.3	199.2	150.4	174.4	165.1	269.6	134.4
1873	167.6	174.6	136.4	229.3	199.2	150.4	174.4	162.3	255.4	146.9
1874	140.0	174.6	120.9	215.5	199.2	131.6	174.4	150.5	201.1	146.9
1875	144.8	174.6	90.9	222.4	199.2	118.0	174.4	153.3	143.5	150.0
1876	135.2	123.9	90.0	172.4	174.4	118.0	167.4	147.6	151.1	150.0
1877	120.7	117.9	90.0	165.5	158.1	91.0	151.2	141.5	170.7	156.3
1878	120.7	117.9	85.5	165.5	158.1	111.3	156.4	141.5	228.3	168.8
1879	120.7	117.9	85.5	172.4	158.1	111.3	144.2	141.5	217.4	168.8
1880	120.7	117.9	100.0	179.3	158.1	111.3	143.0	141.5	231.5	187.5
1881	132.4	137.3	100.0	229.3	173.6	111.3	144.8	141.5	226.1	187.5
1882	132.4	137.3	100.0	229.3	155.0	111.3	156.4	141.5	215.2	187.5
1883	115.2	149.3	90.9	201.7	155.0	111.3	156.4	141.5	213.0	187.5
1884	115.2	149.3	90.9	201.7	155.0	111.3	156.4	141.5	216.3	187.5
1885	112.4	149.3	81.8	158.6	155.0	101.5	146.5	141.5	228.3	181.3
1886	113.8	155.2	88.2	158.6	177.5	101.5	148.8	141.5	206.5	171.9
1887	113.8	149.3	88.2	158.6	177.5	101.5	149.4	141.5	218.5	162.5
1888	126.2	198.5	88.2	158.6	177.5	101.5	145.9	146.2	206.5	140.6
1889	126.2	198.5	88.2	158.6	177.5	101.5	155.8	146.2	235.9	153.1
1890	126.2	198.5	88.2	172.4	177.5	101.5	150.0	146.2	230.4	153.1
1891	126.2	198.5	88.2	201.7	188.4	101.5	149.4	146.2	229.3	158.1

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

METALS AND METALLIC GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	58. Foremen, furnacemen.	54. Foremen, machinists.	56. Foremen, machinists.	58. Foremen, machinists.	65. Foremen, machinists.	68. Foremen, machinists.	54. Foremen, moulders.	56. Foremen, moulders.	58. Furnacemen.	57. Laborers.
1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1843	.....	.....	.....	.....	.....	62.6	.....	.....	.....	.....
1844	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1845	.....	.....	.....	.....	.....	62.6	.....	.....	.....	.....
1846	.....	.....	.....	.....	.....	62.6	.....	.....	.....	.....
1847	.....	.....	.....	.....	.....	70.4	.....	.....	.....	.....
1848	.....	.....	.....	.....	.....	70.4	.....	.....	.....	.....
1849	.....	.....	.....	.....	.....	70.4	.....	.....	.....	.....
1850	80.5	.....	.....	93.3	.....	58.7	.....	.....	90.3	.....
1851	83.3	.....	.....	93.3	.....	58.7	.....	.....	85.5	.....
1852	83.3	.....	.....	93.3	.....	62.6	.....	.....	90.0	.....
1853	83.3	100.0	53.3	93.3	.....	.....	.....	76.9	93.4	.....
1854	91.7	100.0	52.2	95.7	.....	78.2	87.0	100.4	92.0	.....
1855	91.7	100.0	57.4	95.1	.....	62.6	.....	100.4	86.5	.....
1856	100.0	100.0	62.6	103.0	100.0	.....	.....	100.4	88.6	108.7
1857	100.0	100.0	67.8	106.2	100.0	100.0	.....	100.4	86.5	108.7
1858	100.0	100.0	80.1	97.9	.....	.....	.....	100.4	95.8	108.7
1859	100.0	100.0	80.1	99.4	100.0	.....	.....	100.4	93.8	108.7
1860	100.0	100.0	100.0	100.0	.....	.....	100.0	100.0	100.0	100.0
1861	100.0	100.0	100.0	104.1	.....	.....	104.3	100.0	99.7	100.0
1862	100.0	100.0	100.0	105.8	.....	.....	104.3	120.5	90.3	81.5
1863	100.0	100.0	.....	97.0	100.0	.....	104.3	120.5	100.3	108.7
1864	100.0	124.9	.....	116.6	100.0	78.2	121.7	128.3	96.5	134.7
1865	116.7	166.6	.....	127.2	138.8	101.7	156.5	192.4	92.4	162.0
1866	100.0	97.8	100.6	127.2	138.8	125.2	139.1	192.4	102.1	176.1
1867	116.7	97.8	100.1	145.1	138.8	125.2	156.5	256.6	114.2	171.9
1868	116.7	.....	116.7	153.4	138.8	125.2	.....	256.6	110.7	173.9
1869	116.7	.....	116.7	150.7	138.8	125.2	173.9	256.6	121.1	171.2
1870	116.7	91.3	116.7	144.2	138.8	156.5	173.9	256.6	117.6	171.2
1871	116.7	91.3	116.7	144.0	138.8	156.5	156.5	256.6	121.1	170.1
1872	116.7	91.3	116.7	154.3	138.8	187.8	156.5	256.6	117.6	167.9
1873	105.5	104.3	120.0	148.3	138.8	187.8	156.5	256.6	119.4	167.9
1874	108.3	104.3	110.0	154.5	138.8	187.8	156.5	256.6	110.0	168.5
1875	116.7	104.3	110.0	155.8	138.8	187.8	156.5	256.6	111.1	144.6
1876	100.0	91.3	105.1	167.2	166.7	187.8	156.5	256.6	126.0	138.0
1877	100.0	104.3	94.1	165.5	166.7	187.8	139.1	230.9	123.2	119.0
1878	100.0	.....	84.0	165.5	166.7	187.8	139.1	207.8	125.6	116.3
1879	100.0	.....	79.2	171.5	138.8	170.1	121.7	184.7	126.0	112.5
1880	.....	.....	79.2	.....	138.8	170.1	121.7	184.7	126.0	110.9
1881	100.0	.....	96.0	178.9	138.8	170.1	130.4	192.4	121.8	134.2
1882	.....	.....	100.0	160.1	138.8	170.1	139.1	207.8	119.4	123.7
1883	.....	84.7	100.0	148.5	138.8	170.1	104.3	230.9	121.1	123.7
1884	.....	84.7	100.0	147.6	133.3	170.1	121.7	230.9	123.9	123.7
1885	.....	84.7	100.0	139.9	133.3	.....	121.7	207.8	121.1	123.7
1886	.....	84.7	100.0	.....	133.3	129.1	121.7	207.8	120.1	122.6
1887	.....	84.7	100.0	149.3	133.3	129.1	130.4	207.8	122.1	137.5
1888	.....	84.7	100.0	149.3	138.8	129.1	130.4	207.8	.....	136.4
1889	100.0	84.7	100.0	.....	138.8	129.1	130.4	207.8	.....	136.0
1890	.....	84.7	100.0	166.4	138.8	129.1	130.4	207.8	.....	133.0
1891	.....	84.7	100.0	149.3	138.8	129.1	130.4	193.4	119.4	137.0

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

DRY GOODS.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	42. Porters.	42. Salesmen.	42. Saleswomen.
1840			
1841			
1842			
1843			
1844			
1845			
1846			
1847			
1848			
1849			
1850	100.0	103.6	104.4
1851	100.0	103.6	104.4
1852	100.0	103.6	104.4
1853	100.0	103.6	104.4
1854	100.0	103.6	104.4
1855	100.0	103.6	104.4
1856	100.0	103.6	104.4
1857	100.0	103.6	104.4
1858	100.0	103.6	104.4
1859	100.0	100.0	100.0
1860	100.0	100.0	100.0
1861			
1862	100.0	100.0	100.0
1863	125.0	155.6	100.0
1864	125.0	155.6	100.0
1865	125.0	177.8	104.4
1866	125.0	177.8	104.4
1867	125.0	177.8	104.4
1868	125.0	177.8	104.4
1869	125.0	177.8	100.0
1870	125,0	177.8	100.0
1871	125.0	177.8	100.0
1872	125.0	168.9	104.4
1873	125.0	168.9	104.4
1874	125.0	168.9	104.4
1875	125.0	168.9	104.4
1876	125.0	168.9	104.4
1877	125.0	168.9	104.4
1878	125.0	168.9	108.1
1879	125.0	168.9	108.1
1880	125.0	168.9	108.1
1881	125.0	168.9	108.1
1882	125.0	168.9	108.1
1883			
1884	125.0	168.9	104.4
1885	125.0	168.9	104.4
1886	125.0	177.8	104.4
1887	125.0	177.8	104.4
1888	125.0	177.8	104.4
1889	125.0	222.2	140.8
1890	125.0	259.1	171.9
1891	125.0	253.8	171.0

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

METALS AND METALLIC GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	55. Machinists.	56. Machinists.	57. Machinists.	58. Machinists.	59. Machinists.	60. Machinists.	61. Machinists.	62. Machinists.	65. Machinists.	66. Machinists.
1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1843	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1844	.....	.....	.....	.....	.....	.....	84.1	.....	.....	.....
1845	.....	.....	.....	.....	.....	90.1	84.1	84.1	.....	.....
1846	.....	.....	.....	.....	.....	90.1	91.7	86.5	.....	.....
1847	.....	.....	.....	.....	.....	90.1	91.7	92.2	.....	.....
1848	.....	.....	.....	.....	.....	90.1	107.0	90.9	.....	.....
1849	.....	.....	.....	.....	.....	90.1	107.0	93.9	.....	.....
1850	.....	.....	.....	94.2	.....	93.7	92.7	95.6	.....	.....
1851	.....	.....	.....	93.6	.....	92.5	92.7	95.6	.....	.....
1852	.....	.....	.....	93.0	.....	85.9	92.7	104.4	.....	.....
1853	.....	97.7	.....	93.9	100.0	85.9	90.5	94.9	.....	.....
1854	106.4	97.1	.....	96.2	110.0	85.9	95.1	101 0	.....	.....
1855	100.9	110.2	.....	99.1	100.0	85.9	91.7	98.0	.....	.....
1856	102.4	111.4	97.3	97.1	100.0	78.1	93.6	100.3	84.8	.....
1857	108.5	101.5	105.2	99.1	106.7	84.1	94.2	100.0	94.4	.....
1858	107.3	104.7	101.8	94.5	106.7	100.0	93.3	95.6	86.7	.....
1859	100.0	102.0	101.8	97.4	100.0	100.0	96.9	90.5	100.0	100.0
1860	.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	.....	100.0
1861	.....	97.7	102.7	99.7	100.0	108.1	104.0	102.0	.....	100.0
1862	107.9	99.1	98.5	100.0	100.0	132.1	108.0	105.1	.....	100.0
1863	122.2	106.1	111.6	102.9	100.0	180.2	107.6	109.8	91.7	137.3
1864	141.3	119.2	124.9	119.8	120.0	165.2	117.1	116.6	100.0	183.3
1865	170.5	127.4	163.8	136.0	150.0	180.2	130.0	134.1	117.3	163.1
1866	173.3	143.4	168.7	140.7	156.7	180.2	142.8	144.3	128.3	163.1
1867	180.2	147.5	169.3	148.0	166.7	180.2	148.6	135.1	128.3	163.1
1868	182.7	146.4	171.1	148.3	166.7	180.2	148.6	128.7	127.2	200.0
1869	174.5	145.5	172.3	145.9	166.7	180.2	151.7	154.1	128.3	200.0
1870	179.0	166.5	155.3	153.5	166.7	180.2	146.5	163.2	128.3	200.0
1871	177.8	169.4	160.5	149.7	166.7	180.2	149.2	153.7	127.2	200.0
1872	.....	162.7	159.0	155.2	166.7	180.2	149.8	142.2	126.9	200.0
1873	170.8	170.3	161.1	157.0	156.7	180.2	148.3	136.1	126.9	177.8
1874	.....	185.4	161.4	143.3	156.7	180.2	150.8	143.6	130.1	222.2
1875	.....	183.7	155.3	147.1	156.7	144.1	151.7	129.4	132.8	222.2
1876	.....	157.1	152.6	144.5	150.0	144.1	148.3	67.6	132.8	222.2
1877	.....	137.0	140.7	132.6	150.0	115.3	138.2	.....	131.5	222.2
1878	.....	119.8	140.7	136.6	150.0	115.3	135.2	.....	131.5	222.2
1879	.....	119.2	141.0	137.8	133.3	115.3	127.2	106.1	129.9	222.2
1880	.....	125.1	145.0	128.7	133.3	130.0	127.8	106.4	131.5	188.9
1881	.....	128.9	159.9	135.2	166.7	135.1	135.8	107.1	129.3	188.9
1882	.....	135.9	160.8	140.7	166.7	144.1	144.0	108.1	125.6	222.2
1883	.....	146.4	162.0	148.5	150.0	.....	144.6	108.1	138.1	222.2
1884	.....	145.8	163.8	142.7	150.0	141.1	145.0	112.8	138.4	222.2
1885	.....	136.4	155.6	144.2	166.7	144.1	143.7	115.2	136.0	222.2
1886	.....	136.2	155.0	138.1	150.0	132.1	144.3	112.8	133.3	222.2
1887	.....	132.9	154.7	142.2	150.0	135.1	144.3	121.3	137.1	200.0
1888	.....	133.2	153.8	139.0	150.0	135.1	145.9	105.7	145.9	222.2
1889	.....	124.5	155.9	143.6	150.0	135.1	149.2	109.8	145.9	222.2
1890	.....	141.1	155.0	139.5	150.0	135.1	150.8	115.9	145.9	222.2
1891	.....	137.9	155.6	141.3	150.0	135.1	153.2	118.9	145.9	222.2

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

GINGHAMS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	42. Dyers.	43. Loom-fixers.	43. Ma-chin-ists.	43. Over-seers, card-ing dep't.	43. Over-seers, dress-ing dep't.	43. Over-seers, spin-ning dep't.	43. Over-seers, weav-ing dep't.	43. Paint-ers.	43. Pick-ers.	43. Quill-ers.
1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1843	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1844	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1845	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1846	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1847	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1848	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1849	100.0	88.6	96.8	83.3	83.3	90.0	83.3	85.7	100.0	78.9
1850	100.0	88.6	96.8	83.3	100.0	90.0	100.0	85.7	117.0	78.9
1851	100.0	86.7	96.8	83.3	100.0	90.0	100.0	85.7	117.0	75.4
1852	100.0	80.1	96.8	83.3	100.0	90.0	100.0	85.7	117.0	87.7
1853	100.0	79.1	98.7	91.7	100.0	90.0	100.0	85.7	125.0	87.7
1854	100.0	79.1	98.1	91.7	100.0	100.0	100.0	100.0	125.0	87.7
1855	100.0	79.1	95.2	100.0	100.0	100.0	100.0	100.0	125.0	82.5
1856	100.0	105.4	96.1	100.0	100.0	100.0	100.0	100.0	125.0	94.7
1857	100.0	107.3	100.0	100.0	100.0	100.0	100.0	100.0	125.0	105.3
1858	100.0	98.7	100.0	100.0	100.0	100.0	100.0	100.0	117.0	96.5
1859	100.0	101.6	96.8	100.0	100.0	100.0	100.0	100.0	117.0	96.5
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	97.5	90.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1862	100.0	93.7	96.8	100.0	100.0	100.0	100.0	100.0	100.0	96.5
1863	100.0	106.6	96.8	100.0	100.0	100.0	100.0	100.0	100.0	103.5
1864	125.0	96.5	100.0	100.0	100.0	100.0	100.0	100.0	112.0	100.0
1865	150.0	127.8	109.7	100.0	100.0	100.0	100.0	102.9	125.0	128.1
1866	175.0	146.2	145.2	108.3	116.7	110.0	133.3	120.0	165.0	152.6
1867	175.0	147.2	151.6	108.3	116.7	120.0	133.3	120.0	165.0	164.9
1868	175.0	146.2	148.4	116.7	116.7	120.0	133.3	142.9	157.0	166.7
1869	163.0	146.2	148.4	116.7	116.7	120.0	133.3	142.9	157.0	171.9
1870	170.0	148.1	177.4	116.7	116.7	120.0	133.3	142.9	157.0	184.2
1871	170.0	148.1	177.4	116.7	116.7	120.0	133.3	142.9	157.0	184.2
1872	170.0	147.8	177.4	116.7	116.7	120.0	133.3	142.9	157.0	186.0
1873	170.0	144.6	177.4	116.7	116.7	120.0	133.3	142.9	150.0	186.0
1874	170.0	144.6	177.4	116.7	116.7	120.0	133.3	142.9	150.0	191.2
1875	170.0	137.3	161.3	133.3	133.3	125.4	133.3	157.1	136.0	179.8
1876	170.0	133.2	161.3	133.3	133.3	125.4	133.3	114.3	136.0	186.0
1877	150.0	126.9	161.3	133.3	133.3	127.8	133.3	142.9	140.0	168.4
1878	140.0	126.6	161.3	133.3	133.3	127.8	133.3	142.9	140.0	175.4
1879	140.0	126.6	145.2	133.3	133.3	127.8	133.3	142.9	130.0	177.2
1880	135.0	119.0	145.2	133.3	133.3	127.8	133.3	142.9	130.0	170.2
1881	145.0	128.5	154.8	133.3	133.3	127.8	133.3	128.6	125.0	168.4
1882	145.0	127.5	154.8	133.3	133.3	160.0	133.3	128.6	125.0	193.0
1883	147.5	123.4	158.1	133.3	133.3	160.0	133.3	114.3	125.0	166.7
1884	140.0	121.8	158.1	133.3	133.3	160.0	133.3	114.3	125.0	157.9
1885	133.0	116.5	145.2	133.3	133.3	160.0	133.3	114.3	120.0	157.9
1886	133.0	115.5	143.9	133.3	133.3	160.0	133.3	102.9	120.0	156.1
1887	150.0	122.2	151.6	133.3	133.3	160.0	133.3	114.3	125.0	163.2
1888	150.0	121.8	151.6	133.3	133.3	160.0	133.3	128.6	125.0	164.9
1889	150.0	122.8	151.6	133.3	133.3	160.0	133.3	142.9	140.0	178.9
1890	150.0	122.5	151.6	133.3	133.3	160.0	133.3	142.9	140.0	208.5
1891	150.0	121.8	151.6	133.3	133.3	160.0	133.3	142.9	140.0	184.2

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

GINGHAMS—Concluded.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	43. Reelers.	43. Second hands.	43. Smash mend-ers.	43. Speed-ers.	43. Spin-ners, frame.	43. Warp-ers.	43. Watch-men.	43. Weav-ers.	43. Wind-ers.	43. Yard hands.
1840										
1841										
1842										
1843										
1844										
1845										
1846										
1847										
1848										
1849	106.1	88.1	86.5	95.0	89.3	116.4	91.0	111.1	116.1	92.0
1850	98.5	96.8	86.5	100.0	128.6	123.3	91.0	109.9	110.7	92.0
1851	93.9	96.8	86.5	91.7	83.9	106.8	100.0	82.1	98.2	92.0
1852	92.4	96.8	86.5	91.7	94.6	102.7	100.0	79.6	94.6	83.0
1853	92.4	100.0	86.5	91.7	94.6	102.7	100.0	79.6	80.4	92.0
1854	92.4	100.0	86.5	91.7	100.0	113.7	100.0	76.5	85.7	92.0
1855	92.4	100.0	96.2	86.7	100.0	113.7	100.0	87.0	85.7	100.0
1856	101.5	100.0	100.0	90.0	100.0	86.3	100.0	95.1	92.9	100.0
1857	100.0	100.0	100.0	91.7	100.0	89.0	100.0	99.4	98.2	100.0
1858	103.0	100.0	100.0	95.0	100.0	91.8	100.0	107.4	98.2	100.0
1859	115.2	100.0	100.0	95.0	100.0	109.6	100.0	99.4	107.1	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	120.5	100.0	100.0	100.0	105.4	100.0	100.0	101.9	107.1	100.0
1862	120.5	100.0	86.5	100.0	105.4	132.9	100.0	98.8	121.4	100.0
1863	145.5	100.0	86.5	100.0	105.4	123.3	100.0	98.1	121.4	100.0
1864	131.8	102.6	86.5	108.3	116.1	104.1	100.0	95.7	121.4	100.0
1865	130.3	123.9	96.2	133.3	142.9	109.6	114.6	125.3	142.9	150.0
1866	143.9	148.4	115.4	158.3	169.6	143.8	128.8	160.5	175.0	163.9
1867	148.5	151.6	115.4	166.7	178.6	143.8	128.8	180.9	182.1	163.9
1868	160.6	154.8	115.4	166.7	178.6	178.1	139.9	172.8	191.1	163.9
1869	160.6	154.8	115.4	166.7	178.6	184.9	139.9	175.3	192.9	163.9
1870	151.5	161.3	115.4	166.7	178.6	164.4	139.9	177.2	191.1	163.9
1871	207.6	161.3	115.4	166.7	223.2	200.0	139.9	195.1	226.8	163.9
1872	207.6	161.3	115.4	166.7	223.2	214.4	139.9	213.6	221.4	163.9
1873	215.2	161.3	115.4	191.7	223.2	212.3	145.9	206.2	241.1	175.9
1874	194.7	161.3	115.4	191.7	205.4	217.8	145.9	192.6	230.5	175.9
1875	171.2	149.7	104.6	175.0	187.5	216.4	145.9	181.5	200.0	165.9
1876	171.2	149.7	107.7	175.0	187.5	237.0	145.9	188.3	178.6	160.0
1877	154.0	156.1	107.7	158.3	169.6	163.7	145.9	155.6	171.4	160.0
1878	159.1	151.9	107.7	158.3	169.6	164.4	145.9	165.4	171.4	140.0
1879	153.0	150.6	115.4	158.3	178.6	153.4	145.9	158.6	171.4	140.0
1880	149.2	148.1	103.8	158.3	178.6	157.5	137.3	156.2	175.0	130.0
1881	154.5	155.2	111.5	150.0	196.4	145.9	137.3	148.1	170.5	140.0
1882	148.5	155.5	111.5	158.3	169.6	146.6	137.3	148.8	185.7	140.0
1883	151.5	156.1	115.4	158.3	178.6	164.4	137.3	160.5	178.6	135.0
1884	157.6	153.5	111.5	166.7	151.8	139.7	137.3	146.3	178.6	125.0
1885	148.5	151.6	113.1	133.3	125.0	131.5	133.0	138.9	166.1	130.0
1886	143.2	151.6	113.1	133.3	133.9	116.4	133.0	133.3	167.9	135.0
1887	166.7	151.6	119.2	141.7	142.9	141.1	137.3	154.9	167.9	135.0
1888	162.1	151.6	119.2	141.7	160.7	130.1	137.3	152.1	175.0	135.0
1889	171.2	151.6	119.2	158.3	160.7	137.0	137.3	152.5	205.4	135.0
1890	177.3	154.8	119.2	158.3	151.8	178.1	137.3	158.0	183.9	135.0
1891	181.8	154.8	115.4	175.0	160.7	176.7	137.3	163.3	187.5	135.0

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

GROCERIES.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	44. Salesmen.	44. Teamsters.
1840	.....	.....
1841	.....	.....
1842	.....	.....
1843	.....	.....
1844	.....	.....
1845	.....	.....
1846	.....	.....
1847	.....	.....
1848	.....	.....
1849	.....	.....
1850	.....	.....
1851	.....	.....
1852	.....	.....
1853	.....	.....
1854	.....	.....
1855	100.0	100.0
1856	100.0	100.0
1857	100.0	100.0
1858	100.0	100.0
1859	100.0	100.0
1860	100.0	100.0
1861	100.0	100.0
1862	157.1	133.3
1863	185.7	133.3
1864	185.7	133.3
1865	185.7	133.3
1866	185.7	133.3
1867	185.7	133.3
1868	185.7	133.3
1869	185.7	133.3
1870	161.7	133.3
1871	161.7	133.3
1872	161.7	133.3
1873	161.7	133.3
1874	161.7	133.3
1875	181.1	133.3
1876	181.1	133.3
1877	181.1	133.3
1878	185.7	133.3
1879	185.7	133.3
1880	185.7	133.3
1881	185.7	133.3
1882	185.7	133.3
1883	185.7	133.3
1884	185.7	133.3
1885	233.7	155.7
1886	233.7	155.7
1887	233.7	155.7
1888	233.7	155.7
1889	233.7	155.7
1890	233.7	155.7
1891	233.7	155.7

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

ILLUMINATING GAS.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	47. Blacksmiths.	48. Blacksmiths.	47. Blacksmiths' helpers.	48. Blacksmiths' helpers.	47. Bricklayers.	48. Bricklayers.	47. Bricklayers' helpers.	47. Carpenters.	48. Carpenters.	46. Coal handlers.	47. Engineers.
1840	89.1	.....	122.2	.....	83.1	.....	84.3	85.7	.....	.....	.....
1841	89.1	.....	122.2	.....	71.3	.....	84.3	100.0	.....	.....	.....
1842	89.1	.....	111.1	.....	71.3	.....	84.3	100.0	.....	.....	80.8
1843	76.3	.....	111.1	.....	118.8	.....	84.3	85.7	.....	.....	80.8
1844	76.3	.....	111.1	.....	118.8	.....	84.3	92.9	.....	.....	80.8
1845	82.7	.....	111.1	.....	118.8	.....	93.6	92.9	.....	.....	80.8
1846	82.7	.....	111.1	.....	95.0	.....	93.6	92.9	.....	.....	80.8
1847	89.1	.....	111.1	.....	89.1	.....	93.6	95.1	.....	.....	92.4
1848	89.1	.....	111.1	.....	95.0	.....	93.6	100.0	.....	.....	92.4
1849	89.1	100.0	111.1	87.5	89.1	.....	93.6	85.7	.....	.....	92.4
1850	89.1	100.0	122.2	87.5	95.0	.....	93.6	85.7	.....	.....	92.4
1851	89.1	100.0	122.2	87.5	95.0	.....	84.3	85.7	.....	.....	92.4
1852	76.3	100.0	100.0	87.5	95.0	.....	93.6	78.6	.....	.....	92.4
1853	76.3	100.0	100.0	100.0	95.0	.....	103.0	85.7	.....	.....	92.4
1854	80.7	100.0	100.0	100.0	95.0	.....	100.0	100.0	.....	.....	92.4
1855	95.4	100.0	100.0	100.0	96.9	.....	103.0	100.0	.....	.....	92.4
1856	93.4	100.0	100.0	100.0	98.1	88.9	100.0	100.0	.....	100.0	92.4
1857	93.4	116.7	100.0	100.0	95.0	88.9	103.0	109.4	98.4	100.0	86.6
1858	101.8	100.0	100.0	100.0	99.8	88.9	100.0	100.0	98.4	100.0	86.6
1859	104.3	100.0	111.1	100.0	95.0	100.0	98.5	100.0	98.4	100.0	92.4
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	96.7	100.0	111.1	100.0	97.1	100.0	103.0	100.0	102.6	100.0	100.0
1862	96.7	100.0	100.0	100.0	97.1	111.1	101.1	100.0	102.6	100.0	100.0
1863	103.8	127.7	111.1	115.0	106.9	122.2	118.7	100.0	114.8	100.0	111.5
1864	123.7	172.3	133.3	175.0	118.8	133.3	131.1	133.4	147.5	142.5	111.5
1865	150.6	189.0	177.8	200.0	126.6	177.8	149.8	171.4	163.9	150.0	134.6
1866	150.6	216.7	177.8	200.0	142.5	177.8	149.8	171.4	196.7	150.0	138.6
1867	152.7	216.7	177.8	200.0	166.3	222.2	149.8	179.4	163.9	175.0	161.7
1868	163.4	216.7	200.0	200.0	190.0	222.2	149.8	195.1	163.9	.....	161.7
1869	157.8	216.7	200.0	200.0	190.0	222.2	149.8	208.6	147.5	200.0	161.7
1870	157.8	216.7	200.0	200.0	190.0	222.2	149.8	210.3	147.5	200.0	161.7
1871	157.8	216.7	200.0	200.0	190.0	222.2	149.8	208.6	147.5	200.0	161.7
1872	157.8	216.7	200.0	200.0	190.0	222.2	149.8	207.1	147.5	200.0	161.7
1873	183.2	216.7	222.2	200.0	223.3	222.2	168.5	224.9	163.9	225.0	184.8
1874	181.7	216.7	222.2	200.0	213.8	222.2	157.3	228.6	163.9	200.0	184.8
1875	181.7	216.7	222.2	200.0	190.0	200.0	162.2	214.3	163.9	200.0	177.1
1876	181.7	216.7	222.2	200.0	174.1	200.0	168.5	210.6	163.9	183.0	177.1
1877	183.2	189.0	222.2	175.0	166.3	177.8	168.5	200.0	163.9	150.0	177.1
1878	183.2	161.0	222.2	150.0	166.3	177.8	168.5	200.0	131.1	150.0	177.1
1879	147.6	161.0	200.0	150.0	124.7	177.8	149.8	160.9	131.1	150.0	154.0
1880	132.3	161.0	177.8	150.0	130.6	166.7	149.8	142.9	163.9	150.0	134.6
1881	132.3	166.7	177.8	162.5	130.6	155.6	112.4	157.1	163.9	150.0	134.6
1882	130.8	166.7	177.8	162.5	166.3	155.6	118.7	157.1	163.9	150.0	138.6
1883	137.4	166.7	185.3	162.5	190.0	155.6	131.1	178.6	163.9	150.0	150.1
1884	137.4	166.7	182.2	150.0	166.3	155.6	131.1	178.6	163.9	150.0	150.1
1885	137.4	166.7	182.2	150.0	166.3	157.1	131.1	178.6	163.9	150.0	150.1
1886	137.4	150.0	182.2	125.0	166.3	155.6	149.8	178.6	163.9	150.0	150.1
1887	137.4	150.0	182.2	125.0	166.3	144.4	131.1	178.6	163.9	150.0	150.1
1888	136.6	150.0	185.3	150.0	173.4	144.4	149.8	185.7	163.9	150.0	150.1
1889	136.6	150.0	177.8	150.0	178.1	144.4	149.8	192.9	163.9	150.0	150.1
1890	130.5	150.0	177.8	150.0	175.1	144.4	149.8	185.7	163.9	150.0	150.1
1891	136.6	150.0	177.8	165.0	173.4	156.4	149.8	178.6	163.9	150.0	150.1

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

ILLUMINATING GAS—Concluded.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	46. Firemen.	47. Firemen.	48. Firemen.	47. Laborers.	48. Laborers.	46. Laborers, street.	47. Painters.	47. Pavers.	45. Retortmen.	47. Stablemen.	48. Watchmen.
1840	.....	89.6	.....	97.2	.....	.....	.....	90.0	.....	.....	.....
1841	.....	89.6	.....	97.6	.....	.....	.....	100.0	.....	.....	.....
1842	.....	89.6	.....	95.7	.....	.....	.....	100.0	.....	.....	.....
1843	.....	89.6	.....	100.9	.....	.....	.....	90.0	.....	.....	.....
1844	.....	89.6	.....	97.2	.....	.....	.....	90.0	.....	.....	.....
1845	.....	89.6	.....	98.1	.....	.....	.....	100.0	.....	.....	.....
1846	.....	89.6	.....	98.1	.....	.....	.....	100.0	.....	.....	.....
1847	.....	89.6	.....	97.2	.....	.....	.....	100.0	.....	.....	.....
1848	.....	89.6	.....	98.6	.....	.....	.....	100.0	.....	.....	.....
1849	.....	89.6	93.9	98.1	87.5	.....	.....	100.0	.....	.....	.....
1850	100.0	89.6	93.9	97.2	87.5	85.0	.....	100.0	.....	.....	.....
1851	100.0	89.6	102.4	97.6	87.5	85.0	.....	100.0	.....	.....	.....
1852	100.0	91.0	103.3	99.1	91.5	85.0	.....	100.0	.....	.....	.....
1853	100.0	91.0	103.3	98.1	100.0	85.0	.....	100.0	.....	.....	.....
1854	100.0	100.0	103.3	98.1	100.0	87.5	.....	100.0	112.6	.....	.....
1855	100.0	100.0	103.3	98.6	100.0	87.5	.....	106.8	124.1	.....	.....
1856	100.0	100.0	103.3	99.1	100.0	87.5	100.0	105.2	120.4	100.0	.....
1857	100.0	100.0	103.3	99.1	100.0	87.5	100.0	100.0	103.1	100.0	104.5
1858	100.0	100.0	100.0	99.1	100.0	100.0	100.0	100.0	103.1	100.0	100.0
1859	100.0	100.0	100.0	100.5	100.0	100.0	100.0	100.0	103.1	100.0	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	100.0	100.0	99.1	100.0	100.0	100.0	100.0	109.4	100.0	100.0
1862	100.0	100.0	100.0	98.6	100.0	100.0	116.7	100.0	109.4	100.0	102.3
1863	112.5	130.6	115.9	142.2	115.0	110.0	116.7	100.0	109.4	104.0	113.6
1864	137.0	149.3	204.1	142.2	150.0	125.0	150.0	120.0	116.2	140.0	159.1
1865	175.0	186.6	169.4	186.3	175.0	125.0	183.3	160.0	137.7	160.0	159.1
1866	175.0	186.6	183.7	187.7	190.0	150.0	200.0	160.0	137.7	160.0	159.1
1867	200.0	186.6	183.7	170.1	190.0	150.0	216.7	160.0	159.7	160.0	159.1
1868	200.0	201.5	183.7	168.2	175.0	170.5	216.7	160.0	162.8	180.0	159.1
1869	200.0	223.9	183.7	188.2	175.0	166.5	233.3	200.0	171.7	180.0	159.1
1870	200.0	223.9	183.7	187.7	150.0	170.0	233.3	200.0	172.3	180.0	136.4
1871	200.0	223.9	195.9	187.7	175.0	175.0	233.3	200.0	172.3	180.0	159.1
1872	200.0	223.9	195.9	178.7	175.0	200.0	233.3	200.0	168.1	180.0	159.1
1873	225.0	298.5	204.1	189.1	150.0	200.0	258.3	220.0	172.3	210.0	181.8
1874	225.0	261.2	204.1	189.1	150.0	175.0	258.3	220.0	172.3	210.0	181.8
1875	202.5	242.5	199.2	165.9	150.0	150.0	258.3	200.0	172.3	210.0	181.8
1876	196.5	242.5	195.5	165.9	150.0	146.5	250.0	200.0	172.3	210.0	159.1
1877	177.5	223.9	195.5	142.2	150.0	125.0	233.3	200.0	172.3	210.0	159.1
1878	177.5	223.9	175.9	142.2	125.0	125.0	233.3	200.0	172.3	210.0	159.1
1879	170.5	205.2	175.9	118.5	125.0	125.0	189.0	160.0	172.3	200.0	159.1
1880	166.5	186.6	177.6	117.1	125.0	125.0	191.7	140.0	165.4	180.0	159.1
1881	166.5	205.2	177.6	135.1	125.0	150.0	191.7	157.2	163.9	180.0	181.8
1882	187.5	205.2	178.8	138.4	125.0	150.0	191.7	200.0	163.9	180.0	181.8
1883	187.0	223.9	178.8	148.8	125.0	150.0	191.7	200.0	163.9	180.0	181.8
1884	186.5	223.9	179.2	142.2	125.0	150.0	191.7	200.0	155.0	190.0	181.8
1885	183.5	223.9	178.4	144.5	125.0	150.0	191.7	200.0	157.6	190.0	181.8
1886	183.5	223.9	178.4	147.9	125.0	150.0	191.7	200.0	157.6	170.0	181.8
1887	183.5	223.9	178.4	163.1	125.0	150.0	191.7	200.0	157.6	180.0	181.8
1888	183.5	223.9	178.4	151.7	125.0	150.0	191.7	200.0	157.6	180.0	181.8
1889	183.5	223.9	178.4	151.2	125.0	150.0	194.3	200.0	157.6	180.0	181.8
1890	183.5	223.9	178.4	154.0	125.0	165.0	194.3	200.0	157.6	180.0	181.8
1891	183.5	223.9	178.4	154.0	129.5	156.5	191.7	200.0	157.6	180.9	181.8

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

LEATHER.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	51. Bark grinders.	51. Beamsters.	50. Blackers.	50. Cellar hands.	50. Finishers.	50. Flatteners.	50. Glossers.	51. Leach tenders.
1840								
1841								
1842								
1843								
1844								
1845								
1846								
1847								
1848								
1849								
1850								
1851								
1852								
1853								
1854								
1855								
1856			100.0	90.0	83.7	95.3	85.8	
1857	55.7	66.7	108.5	96.5	88.3	96.1	71.7	77.7
1858	66.7	69.0	100.0	100.0	97.5	100.0	100.0	77.7
1859	89.0	89.0	100.0	100.0	100.0	128.8	100.0	89.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	111.0	111.0	100.0	116.5	109.2	114.6	114.6	100.0
1862	111.0	129.0	116.5	125.0	127.6	128.8	128.8	122.3
1863	133.3	140.0	116.5	141.5	144.4	157.5	142.9	133.3
1864	144.3	144.3	133.5	175.0	141.0	171.7	142.9	144.3
1865	144.3	144.3	133.5	200.0	157.3	185.8	142.9	144.3
1866	144.3	144.3	158.5	200.0	143.5	162.2	150.2	139.0
1867	139.0	133.3	158.5	183.5	148.5	154.1	150.2	133.3
1868	133.3	133.3	170.0	179.5	149.4	164.4	157.5	133.3
1869	133.3	133.3	186.0	183.5	151.9	157.5	167.0	133.3
1870	122.3	122.3	193.5	193.5	164.0	164.4	171.7	122.3
1871	119.7	118.7	189.0	193.5	163.2	164.4	171.7	133.3
1872	119.7	119.7	183.5	193.5	162.8	167.0	164.4	133.3
1873	122.3	122.3	189.0	196.5	161.1	171.7	164.4	122.3
1874	116.7	112.0	189.0	196.5	163.2	171.7	166.5	118.3
1875	97.3	98.3	166.5	172.0	149.4	175.5	153.6	103.7
1876	96.3	90.0	161.0	162.0	146.4	163.1	160.9	115.0
1877	100.0	100.0	161.0	166.5	151.9	160.1	162.2	97.3
1878	105.7	102.3	166.5	171.0	155.2	171.7	167.0	97.3
1879	89.0	93.3	158.5	161.5	146.4	147.2	142.9	86.0
1880	100.0	100.0	162.5	173.5	143.5	142.9	139.5	91.7
1881	94.3	93.0	162.5	168.5	145.6	145.1	144.6	108.3
1882	89.0	93.7	162.5	164.0	147.3	147.2	148.5	108.3
1883	103.7	103.7	159.5	169.5	145.6	147.2	144.6	97.3
1884	101.7	102.3	165.5	169.5	142.3	147.2	151.9	100.0
1885	101.7	103.0	157.0	156.5	142.7	138.2	160.9	103.0
1886	120.7	113.0	156.0	150.0	141.0	136.1	130.9	122.3
1887	100.0	97.0	166.5	150.0	151.9	157.5	136.1	100.0
1888	98.7	97.3	158.5	150.0	153.6	157.5	157.5	108.7
1889	98.7	94.3	150.0	166.5	142.3	157.5	157.5	104.3
1890	100.0	95.7	150.0	166.5	141.0	164.4	157.5	102.3
1891	107.0	104.3	166.5	145.5	141.0	164.4	200.4	100.0

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

LEATHER—Concluded.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	51. Liners.	50. Setters-out.	51. Shavers.	50. Splitters.	50. Stuffers.	50. Table hands.	50. Whiten-ers.	51. Yard hands.
1840								
1841								
1842								
1843								
1844								
1845								
1846								
1847								
1848								
1849								
1850								
1851								
1852								
1853								
1854								
1855								
1856		96.6		77.7	92.2	86.7	80.7	
1857	66.7	85.8	86.6	77.7	95.4	79.1	112.6	85.8
1858	77.7	103.4	86.6	100.0	104.1	110.4	112.6	85.8
1859	100.0	107.3	100.0	100.0	107.4	118.5	112.6	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	111.0	114.6	100.0	122.3	107.4	105.2	112.6	120.2
1862	111.0	128.8	100.0	133.3	123.0	126.5	132.9	130.5
1863	133.3	157.5	100.0	144.3	143.3	142.2	150.2	133.5
1864	144.3	185.8	120.0	155.7	149.8	147.4	185.0	173.4
1865	144.3	185.8	120.0	155.7	179.3	157.8	187.9	182.4
1866	144.3	171.7	120.0	155.7	174.2	157.8	177.3	185.8
1867	133.3	157.5	113.4	127.7	176.5	173.9	169.1	175.5
1868	133.3	157.5	113.4	126.0	176.5		160.9	171.7
1869	133.3	157.5	106.6	122.3	172.8		171.5	171.7
1870	116.7	142.9	111.8	137.0	180.6	142.2	182.6	158.4
1871	111.0	142.9	108.8	144.3	180.6	173.9	198.6	140.8
1872	111.0	142.9	120.0	140.7	169.1	173.9	198.6	152.8
1873	111.0	157.5	120.0	137.0	174.2	165.9	198.6	164.4
1874	111.0	157.5	113.4	141.7	180.6	165.9	198.6	145.5
1875	100.0	157.5	113.4	150.0	153.5	157.8	193.2	128.8
1876	100.0	136.1	113.4	150.0	148.4	145.5	177.3	116.3
1877	100.0	142.9	106.6	141.7	148.4	151.7	177.3	121.5
1878	111.0	132.2	93.4	144.3	158.1	151.2	176.8	121.5
1879	111.0	125.3	93.4	137.0	153.9	145.0	162.3	110.3
1880	111.0	118.0	113.4	135.0	146.1	145.0	158.0	121.0
1881	100.0	118.0	110.0	135.0	146.1	139.8	158.0	124.0
1882	100.0	118.0	113.4	139.0	147.9	142.2	158.0	126.6
1883	100.0	118.0	113.4	144.3	146.5	157.8	158.5	128.8
1884	89.0	118.0	113.4	144.3	148.4	165.9	161.8	127.0
1885	85.3	121.5	113.4	139.0	138.2		160.9	132.2
1886	96.3	128.8	106.6	133.3	138.2	142.2	160.9	135.2
1887	96.3	128.8	110.0	133.3	156.7	173.9	167.6	124.5
1888	96.3	138.2	110.0	126.0	161.3	157.8	166.2	122.3
1889	96.3	138.2	113.4	122.3	146.1	142.2	155.6	119.3
1890	100.0	142.9	113.4	116.7	146.1	142.2	155.6	123.6
1891	100.0	142.9	113.4	130.7	153.5	145.5	156.5	129.6

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

LUMBER.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	52. Laborers.	52. Lumbermen.	52. Salesmen.	52. Teamsters.	52. Yard hands.
1840					59.1
1841					56.3
1842					61.5
1843					70.7
1844					76.0
1845					89.9
1846					92.6
1847					93.8
1848			100.0		101.4
1849			100.0		94.7
1850			100.0	77.8	97.6
1851			100.0	77.8	94.2
1852			100.0	77.8	94.2
1853			100.0	77.8	108.2
1854			100.0	88.9	108.2
1855			100.0	88.9	111.1
1856			100.0	77.8	111.1
1857			100.0	72.4	100.0
1858	100.0	101.0	100.0	83.1	91.8
1859	100.0	95.0	100.0	83.1	89.5
1860	100.0	100.0	100.0	100.0	100.0
1861	100.0	99.0	100.0	115.1	103.8
1862	119.5	129.7	91.7	94.2	101.0
1863	159.7	182.2	113.7	98.2	105.3
1864	179.2	189.1	114.7	117.3	122.6
1865	179.2	202.0	139.0	111.1	134.6
1866	179.2	202.0	139.0	122.2	128.8
1867	179.2	206.9	139.0	122.2	138.0
1868	179.2	208.9	150.0	133.3	147.1
1869	179.2	211.9	150.0	133.3	153.4
1870	179.2	210.9	155.7	140.9	158.2
1871	179.2	205.0	155.7	140.9	158.6
1872	179.2	202.0	166.7	155.6	158.6
1873	179.2	208.9	182.0	155.6	163.6
1874	179.2	218.8	182.0	155.6	163.6
1875	179.2	201.0	171.3	144.4	163.0
1876	179.2	205.9	171.3	144.4	164.4
1877	179.2	202.0	182.0	144.4	176.4
1878	179.2	210.9	182.0	140.9	176.4
1879	179.2	212.9	182.0	133.3	168.7
1880	179.2	206.9	182.0	133.3	164.9
1881	194.8	189.1	190.3	133.3	176.4
1882	194.8	192.1	190.3	133.3	165.9
1883	194.8	193.1	193.7	133.3	162.0
1884	194.8	189.1	155.7	148.0	162.0
1885	194.8	191.1	155.7	148.0	162.0
1886	194.8	191.1	155.7	144.4	162.0
1887	194.8	189.1	159.0	144.4	167.3
1888	194.8	191.1	159.0	143.1	164.9
1889	194.8	189.1	186.7	143.1	162.0
1890	194.8	189.1	186.7	143.0	164.0
1891	194.8	193.1	186.7	143.0	164.0

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

METALS AND METALLIC GOODS.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	54. Blacksmiths.	55. Blacksmiths.	56. Blacksmiths.	57. Blacksmiths.	61. Blacksmiths.	62. Blacksmiths.	65. Blacksmiths.	67. Blacksmiths.	68. Blacksmiths.	71. Blacksmiths.
1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1843	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1844	.....	.....	.....	.....	.....	.....	.....	.....	113.2	.....
1845	.....	.....	.....	.....	.....	78.0	.....	.....	110.0	.....
1846	.....	.....	.....	.....	.....	88.7	.....	71.4	125.2	.....
1847	.....	.....	.....	.....	.....	.....	.....	71.4	134.8	87.7
1848	.....	.....	.....	.....	.....	83.3	.....	78.6	134.8	87.7
1849	.....	.....	.....	.....	.....	83.3	.....	.....	145.2	88.0
1850	.....	.....	.....	.....	.....	88.7	.....	85.7	150.0	89.2
1851	.....	.....	.....	.....	75.0	88.7	.....	89.4	120.0	92.8
1852	.....	.....	.....	.....	75.0	94.7	.....	91.1	113.2	92.0
1853	.....	.....	85.7	.....	75.0	101.7	.....	92.9	.....	92.8
1854	111.1	88.4	95.1	.....	75.0	100.0	.....	107.1	130.0	98.6
1855	88.9	92.3	.....	.....	87.5	105.7	.....	107.1	126.8	95.7
1856	88.9	82.6	.....	98.1	87.5	94.7	.....	107.1	137.6	95.2
1857	88.9	85.5	.....	100.0	100.0	.....	93.8	107.1	117.6	98.6
1858	100.0	92.3	.....	100.3	100.0	100.0	75.0	107.1	.....	90.4
1859	88.9	100.0	95.1	101.3	100.0	88.7	100.0	100.0	.....	92.0
1860	100.0	.....	100.0	100.0	100.0	100.0	.....	100.0	100.0	100.0
1861	100.0	.....	100.0	99.4	87.5	94.7	.....	100.0	.....	100.5
1862	94.4	92.6	114.3	94.6	87.5	105.3	.....	100.0	100.0	103.1
1863	100.0	96.8	114.3	108.9	100.0	105.7	83.0	104.6	103.2	112.8
1864	111.1	117.7	128.6	134.5	100.0	113.7	.....	114.3	120.0	131.6
1865	155.6	136.4	.....	175.7	119.0	166.7	108.0	157.1	164.0	154.9
1866	155.6	131.9	.....	183.7	119.0	166.7	.....	.....	154.8	163.9
1867	155.6	147.8	.....	166.5	150.0	159.3	100.0	171.4	167.6	168.2
1868	155.6	149.6	.....	167.7	150.0	150.0	100.0	185.7	150.0	168.2
1869	155.6	153.8	.....	167.7	150.0	166.7	.....	185.7	149.6	168.0
1870	127.8	140.6	200.0	165.2	150.0	133.3	.....	185.7	148.4	167.2
1871	126.0	158.3	185.7	159.7	150.0	150.0	.....	200.0	156.0	168.4
1872	127.8	.....	171.4	162.3	150.0	166.7	.....	200.0	161.2	167.5
1873	166.7	.....	185.7	171.6	175.0	183.3	.....	214.3	174.0	163.1
1874	133.3	.....	192.9	171.6	175.0	183.3	137.5	214.3	158.8	170.4
1875	.....	.....	192.9	154.3	175.0	183.3	137.5	214.3	172.0	168.0
1876	105.6	.....	167.1	154.3	175.0	.....	137.5	214.3	144.0	154.5
1877	122.2	.....	160.0	138.3	150.0	.....	137.5	200.0	153.2	137.8
1878	133.3	.....	142.9	135.8	150.0	.....	137.5	200.0	149.2	137.8
1879	116.7	.....	142.9	133.2	137.5	133.3	137.5	200.0	120.0	131.1
1880	122.2	.....	142.9	133.2	137.5	133.3	137.5	185.7	130.0	132.0
1881	116.7	.....	157.1	149.2	162.5	133.3	137.5	200.0	149.2	132.3
1882	122.2	.....	171.4	147.9	162.5	133.3	137.5	221.4	156.0	138.6
1883	126.0	.....	200.0	151.8	162.5	133.3	141.8	166.6	173.2	144.1
1884	144.4	.....	200.0	159.7	162.5	116.7	141.8	171.4	153.2	138.1
1885	155.6	.....	185.7	150.2	162.5	116.7	141.8	162.0	136.0	131.1
1886	138.9	.....	185.7	151.8	162.5	116.7	141.8	166.6	144.0	131.8
1887	155.6	.....	185.7	150.2	162.5	133.3	133.3	178.6	149.2	142.4
1888	122.2	.....	185.7	153.4	162.5	133.3	125.0	166.6	.....	145.8
1889	155.6	.....	185.7	151.8	162.5	.....	125.0	182.9	188.0	146.0
1890	155.6	.....	200.0	151.8	162.5	.....	125.0	171.4	180.0	146.5
1891	133.3	.....	200.0	151.8	162.5	.....	125.0	152.3	180.0	147.0

TABLE 37.—*Rates of wages for 58 years—Relative wages*—Continued.

METALS AND METALLIC GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	72. Blacksmiths.	73. Blacksmiths.	74. Blacksmiths.	54. Blacksmiths' helpers.	55. Blacksmiths' helpers.	57. Blacksmiths' helpers.	67. Blacksmiths' helpers.	68. Blacksmiths' helpers.	71. Blacksmiths' helpers.	72. Blacksmiths' helpers.
1840	88.1	.....	.....	.....	.....	.....	.....	.....	.....	92.0
1841	88.8	.....	.....	.....	.....	.....	.....	.....	.....	88.1
1842	90.8	.....	.....	.....	.....	.....	.....	.....	.....	100.0
1843	90.8	.....	.....	.....	.....	.....	.....	.....	.....	83.4
1844	86.8	.....	.....	.....	.....	.....	.....	100.0	.....	71.4
1845	99.0	.....	.....	.....	.....	.....	.....	100.0	.....	82.9
1846	95.7	.....	.....	.....	.....	.....	77.7	100.0	.....	.....
1847	.....	.....	.....	.....	.....	.....	.....	.....	103.0	.....
1848	88.8	.....	.....	.....	.....	.....	.....	.....	103.0	94.6
1849	103.3	.....	77.3	.....	.....	.....	.....	.....	102.6	98.3
1850	92.1	.....	77.3	.....	.....	.....	81.7	100.0	104.8	90.2
1851	82.5	.....	77.3	.....	.....	.....	100.0	97.1	97.8	97.1
1852	88.1	.....	77.3	.....	.....	.....	100.0	102.9	97.8	93.1
1853	87.5	.....	90.9	.....	.....	.....	102.9	.....	97.8	93.1
1854	88.4	.....	90.9	90.9	112.0	.....	128.6	104.6	110.4	98.3
1855	94.7	79.4	100.0	109.1	100.0	.....	114.3	102.9	106.5	100.0
1856	96.7	88.1	113.6	109.1	116.5	92.0	104.6	103.4	108.7	98.0
1857	90.8	92.6	113.6	109.1	116.5	100.0	114.3	104.6	108.7	98.0
1858	81.8	91.0	100.0	90.9	100.0	100.0	107.4	.....	87.0	92.0
1859	85.5	90.5	100.0	90.9	100.0	100.0	100.0	85.7	87.0	98.0
1860	100.0	100.0	100.0	100.0	.....	100.0	100.0	100.0	100.0	100.0
1861	92.4	100.3	100.0	100.0	.....	100.0	107.4	114.3	99.6	100.0
1862	95.7	108.2	90.9	95.6	109.0	97.0	100.0	114.3	100.0	103.4
1863	102.3	111.6	100.0	100.0	113.0	100.0	85.7	.....	120.0	114.3
1864	121.1	138.9	113.6	100.0	131.5	135.0	142.9	.....	140.9	128.6
1865	148.5	158.7	113.6	133.5	148.0	159.0	185.7	.....	171.7	171.4
1866	165.0	152.1	113.6	121.1	147.0	173.0	178.9	.....	176.1	176.6
1867	160.1	158.7	113.6	139.4	151.5	176.5	185.7	.....	176.5	176.6
1868	163.0	163.2	113.6	127.3	160.0	173.5	185.7	.....	177.0	177.1
1869	163.4	163.2	118.2	133.5	165.0	178.0	200.0	.....	177.0	180.9
1870	132.0	160.6	118.2	.....	175.0	178.0	192.6	.....	173.9	197.1
1871	159.4	133.3	113.6	127.3	175.0	176.5	190.3	.....	173.9	182.9
1872	158.1	137.6	118.2	.....	.....	172.5	209.7	.....	174.8	178.9
1873	169.6	142.9	127.3	133.5	.....	171.0	214.3	185.7	173.5	184.9
1874	.....	147.4	113.6	133.5	.....	171.0	228.6	171.4	174.3	161.7
1875	148.5	138.6	104.5	.....	.....	156.5	190.3	171.4	162.2	160.9
1876	140.6	124.3	95.5	.....	.....	150.0	200.0	171.4	163.6	149.7
1877	140.6	108.5	104.5	109.1	.....	150.0	171.4	152.6	141.3	150.3
1878	140.6	100.5	90.9	109.1	.....	150.0	171.4	152.6	140.4	150.9
1879	125.4	100.5	90.9	109.1	.....	150.0	171.4	171.4	131.7	138.6
1880	137.3	100.5	90.9	109.1	.....	150.0	142.9	152.6	132.6	140.7
1881	149.8	99.5	90.9	100.0	.....	150.0	178.9	171.4	132.2	150.9
1882	148.5	109.0	90.9	124.0	.....	150.0	212.0	171.4	134.8	161.1
1883	157.1	118.5	90.9	118.2	.....	150.0	205.7	167.4	137.0	168.5
1884	158.4	118.5	90.9	118.2	.....	150.0	205.7	171.4	143.0	168.9
1885	151.8	108.5	86.4	127.3	.....	125.0	205.7	154.3	142.9	167.4
1886	142.6	107.9	86.4	115.3	.....	125.0	192.6	148.6	144.8	154.3
1887	159.4	134.4	90.9	127.3	.....	140.0	205.7	160.0	155.2	160.7
1188	158.4	128.0	90.9	118.2	.....	140.0	197.1	161.1	162.6	160.7
1889	158.4	124.2	90.9	127.3	.....	140.0	201.1	168.6	164.8	171.4
1890	156.8	127.0	90.9	121.1	.....	140.0	205.7	160.6	168.1	170.9
1891	156.8	127.0	90.9	115.3	.....	140.0	205.7	164.0	165.2	168.7

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

METALS AND METALLIC GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	73. Blacksmiths' helpers.	74. Blacksmiths' helpers.	54. Boilermakers.	55. Boilermakers.	57. Boilermakers.	68. Boilermakers.	68. Boilermakers' apprentices.	54. Boilermakers' helpers.	55. Boilermakers' helpers.	68. Boilermakers' helpers.
1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1843	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1844	.....	.....	.....	.....	.....	96.3	.....	.....	.....	104.2
1845	.....	.....	.....	.....	.....	93.0	.....	.....	.....	104.2
1846	.....	.....	.....	.....	.....	90.5	.....	.....	.....	95.8
1847	.....	.....	.....	.....	.....	97.5	100.0	.....	.....	98.8
1848	.....	.....	.....	.....	.....	100.0	110.7	.....	.....	95.8
1849	.....	71.4	.....	.....	.....	103.5	133.3	.....	.....	105.4
1850	.....	71.4	.....	.....	.....	106.6	122.7	.....	.....	104.2
1851	.....	71.4	.....	.....	.....	105.8	132.0	.....	.....	100.6
1852	.....	71.4	.....	.....	.....	116.1	137.3	.....	.....	104.2
1853	.....	71.4	105.9	.....	.....	.....	.....	.....	.....	119.0
1854	.....	78.6	91.8	91.6	.....	122.3	129.3	94.3	99.5	104.2
1855	100.0	92.9	113.0	89.7	.....	128.1	136.0	102.6	103.5	103.6
1856	100.0	100.0	104.2	98.1	86.1	126.4	132.0	99.6	104.5	105.4
1857	100.0	100.0	108.2	106.4	93.3	130.6	142.7	101.3	105.5	110.7
1858	100.0	100.0	104.2	103.2	103.8	.....	.....	90.4	101.5	119.0
1859	100.0	100.0	101.4	100.0	95.9	.....	.....	97.8	100.0	.....
1860	100.0	100.0	100.0	.....	100.0	100.0	100.0	100.0	.....	100.0
1861	100.0	107.1	101.1	.....	119.9	.....	.....	108.7	.....	.....
1862	100.0	107.1	98.9	107.7	88.0	126.9	133.3	108.7	114.4	108.9
1863	112.5	114.3	120.1	121.2	86.6	115.7	100.0	99.6	116.9	114.3
1864	125.0	114.3	127.1	137.6	107.0	152.1	112.0	120.9	121.4	98.2
1865	166.5	121.4	141.2	172.3	136.0	172.7	150.7	145.2	144.3	107.1
1866	166.5	121.4	136.4	173.3	138.8	174.0	.....	152.2	149.8	107.7
1867	166.5	121.4	142.9	178.1	130.5	170.7	.....	157.8	149.8	133.9
1868	166.5	121.4	129.9	171.1	137.4	170.2	197.3	113.9	133.3	123.8
1869	166.5	114.3	141.2	174.0	125.4	178.9	213.3	130.4	150.7	116.1
1870	166.5	114.3	137.0	176.8	112.7	181.8	213.3	158.7	174.1	133.9
1871	150.0	107.1	139.0	158.8	115.3	178.1	.....	152.2	158.7	126.8
1872	150.0	114.3	137.6	160.1	118.9	182.2	.....	152.2	171.1	124.4
1873	160.0	117.9	137.0	175.6	151.8	188.4	.....	.....	144.3	136.9
1874	170.0	110.7	151.7	159.8	151.8	178.5	.....	.....	174.1	95.2
1875	100.0	100.0	150.6	165.0	127.8	186.8	.....	.....	.....	114.9
1876	140.0	92.9	141.2	161.1	137.9	161.2	.....	.....	131.8	119.0
1877	130.0	92.9	155.4	137.9	112.0	151.2	186.7	152.2	130.8	132.1
1878	130.0	78.6	143.8	144.7	112.0	152.9	176.0	134.3	149.3	136.9
1879	130.0	78.6	141.2	119.0	112.0	144.2	160.0	130.4	124.4	147.0
1880	120.0	78.6	169.5	126.7	107.9	146.0	173.3	108.7	117.9	142.9
1881	130.0	92.9	141.2	131.2	136.0	148.8	169.3	119.6	144.3	133.9
1882	140.0	92.9	136.4	155.0	136.0	169.0	173.3	126.1	146.8	141.1
1883	140.0	92.9	141.2	159.2	139.8	166.1	200.0	133.9	141.3	136.9
1884	140.0	92.9	127.1	161.4	139.8	169.4	186.7	130.4	146.8	151.8
1885	130.0	92.9	120.1	163.7	139.8	156.2	186.7	152.2	139.3	148.8
1886	130.0	78.6	141.2	157.6	139.8	162.8	186.7	136.5	129.4	114.9
1887	130.0	92.9	141.2	156.3	139.8	165.7	.....	133.0	132.8	107.1
1888	140.0	92.9	136.4	157.6	136.0	171.9	.....	136.1	132.8	129.2
1889	140.0	92.9	125.7	162.1	136.0	168.6	160.0	130.4	152.2	139.9
1890	140.0	92.9	122.9	162.7	131.9	174.4	173.3	130.4	151.2	158.3
1891	140.0	92.9	131.4	165.3	135.0	180.6	206.7	152.2	167.7	163.7

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

METALS AND METALLIC GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	72. Boiler tenders.	71. Carpenters.	72. Carpenters.	72. Carpenters' helpers.	72. Coal wheelers.	66. Coremakers.	73. Coremakers.	74. Coremakers.	66. Cupolamen.	71. Draughtsmen.
1840	.....	.....	76.9	.....	.....	.....	.....	.....	.....	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	.....	76.9	.....	.....	.....	.....	.....	.....	.....
1843	.....	.....	76.9	100.0	83.8	.....	.....	.....	.....	.....
1844	.....	.....	76.9	.....	.....	.....	.....	.....	.....	.....
1845	.....	.....	71.1	.....	.....	.....	.....	.....	.....	.....
1846	.....	.....	74.5	.....	97.8	.....	.....	.....	.....	.....
1847	.....	84.9	.....	.....	111.7	.....	.....	.....	.....	.....
1848	.....	88.8	82.2	.....	125.7	.....	.....	.....	.....	80.8
1849	171.4	90.3	.....	76.7	125.7	.....	.....	.....	.....	80.8
1850	100.0	90.6	76.9	69.3	125.7	.....	.....	.....	.....	80.8
1851	.....	92.7	78.8	88.3	111.7	.....	.....	.....	.....	84.5
1852	100.0	92.7	74.5	.....	.....	.....	.....	.....	.....	90.1
1853	.....	93.0	75.1	107.4	103.4	.....	.....	.....	.....	91.3
1854	.....	99.0	79.4	.....	103.9	.....	.....	91.7	.....	98.2
1855	114.3	99.2	79.4	107.4	103.9	.....	.....	91.7	.....	100.9
1856	100.0	100.5	76.9	107.4	119.0	.....	100.0	91.7	.....	100.9
1857	.....	101.6	96.3	114.7	103.9	.....	100.0	91.7	.....	94.2
1858	96.6	94.3	84.6	.....	111.7	.....	100.0	100.0	.....	103.9
1859	100.0	94.0	100.0	100.0	111.7	100.0	100.0	100.0	100.0	92.4
1860	.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	.....	101.0	92.3	.....	102.8	100.0	100.0	100.0	100.0	98.2
1862	.....	102.9	.....	148.5	103.9	100.0	100.0	116.7	102.8	100.0
1863	93.1	108.4	123.1	171.2	125.7	100.0	100.0	116.7	110.4	105.5
1864	150.3	129.5	126.2	107.4	164.2	100.0	124.7	116.7	114.2	127.2
1865	.....	136.3	134.5	214.7	198.3	120.0	149.8	141.7	136.0	155.0
1866	173.1	140.5	129.5	204.3	197.2	120.0	149.8	166.7	134.1	171.4
1867	.....	150.1	148.3	168.7	179.3	120.0	149.8	166.7	134.1	187.8
1868	177.1	161.6	150.5	184.0	176.5	133.2	149.8	166.7	152.6	188.0
1869	180.0	161.9	153.8	184.0	178.2	133.2	149.8	166.7	165.9	213.4
1870	171.4	167.6	153.8	.....	191.1	133.2	149.8	166.7	165.9	220.1
1871	180.0	169.7	153.8	.....	178.2	133.2	119.9	166.7	165.9	223.3
1872	180.0	173.1	158.2	.....	176.5	133.2	104.9	150.0	165.9	223.3
1873	194.3	171.3	157.2	184.0	177.1	143.6	112.4	150.0	170.1	192.4
1874	177.1	156.7	144.9	153.4	177.1	143.6	119.9	.....	181.5	201.6
1875	.....	156.7	136.9	168.7	156.4	146.8	104.9	.....	181.5	201.6
1876	171.4	141.0	161.5	218.4	142.5	.....	104.9	.....	161.6	180.1
1877	149.1	132.9	161.5	234.4	143.0	.....	97.4	.....	161.6	166.7
1878	172.0	118.5	153.8	214.7	141.9	.....	97.4	141.7	161.6	179.2
1879	.....	116.4	153.8	201.8	126.3	120.0	97.4	141.7	161.6	179.2
1880	167.4	114.9	125.5	198.8	156.4	120.0	97.4	133.3	146.0	179.2
1881	190.3	123.0	133.8	185.9	172.6	120.0	104.9	150.0	161.6	200.3
1882	190.3	127.4	133.2	174.2	178.8	120.0	112.4	150.0	157.8	238.3
1883	197.1	133.7	135.1	215.3	164.2	120.0	127.3	166.7	152.6	238.3
1884	189.1	130.8	137.2	203.1	150.8	120.0	127.3	166.7	152.6	238.3
1885	200.0	122.5	131.1	206.7	138.0	120.0	112.4	141.7	157.8	189.1
1886	200.0	117.8	138.5	204.3	139.1	100.0	112.4	141.7	137.9	180.8
1887	200.0	133.9	139.7	184.0	162.6	120.0	112.4	141.7	151.7	212.2
1888	200.0	136.6	140.6	214.7	158.1	120.0	112.4	141.7	160.7	226.7
1889	200.0	138.1	139.1	165.6	158.1	120.0	127.3	141.7	155.9	233.5
1890	200.0	143.1	132.9	214.7	156.4	120.0	127.3	141.7	156.4	253.6
1891	200.0	137.6	138.2	.....	162.6	120.0	127.3	141.7	156.4	237.6

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

METALS AND METALLIC GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	74. Draughtsmen.	54. Engineers.	56. Engineers.	62. Engineers.	66. Engineers.	74. Engineers.	68. Foremen, blacksmiths.	71. Foremen, blacksmiths.	54. Foremen, boilermakers.	68 Foremen, boilermakers.
1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1843	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1844	.....	.....	.....	.....	.....	.....	.....	.....	.....	46.4
1845	.....	.....	.....	.....	.....	.....	.....	.....	.....	46.4
1846	.....	.....	.....	.....	.....	.....	.....	.....	.....	53.6
1847	.....	.....	.....	.....	.....	.....	.....	83.3	.....	64.3
1848	.....	.....	.....	.....	.....	.....	.....	83.3	.....	64.3
1849	.....	.....	.....	.....	.....	.....	.....	83.3	.....	64.3
1850	.....	.....	.....	.....	.....	65.0	66.7	83.3	.....	71.4
1851	.....	.....	.....	.....	.....	65.0	66.7	83.3	.....	71.4
1852	.....	.....	.....	.....	.....	65.0	66.7	91.7	.....	71.4
1853	.....	.....	100.0	85.5	.....	65.0	.....	91.7	.....	.....
1854	.....	70.7	114.2	85.5	.....	65.0	83.3	91.7	75.0	85.7
1855	.....	83.3	142.9	85.5	.....	65.0	91.7	100.0	75.0	100.0
1856	.....	83.3	142.9	100.0	.....	75.0	100.0	91.7	83.3	100.0
1857	.....	83.3	142.9	100.0	.....	75.0	100.0	100.0	83.3	100.0
1858	.....	91.7	142.9	100.0	.....	85.0	.....	100.0	87.5	.....
1859	.....	91.7	142.9	92.3	100.0	85.0	.....	100.0	87.5	.....
1860	.....	100.0	100.0	100.0	100.0	100.0	.....	100.0	100.0	.....
1861	100.0	100.0	100.0	100.0	100.0	100.0	.....	100.0	100.0	.....
1862	100.0	100.0	107.3	100.0	100.0	100.0	66.7	100.0	100.0	57.1
1863	100.0	100.0	128.8	100.0	100.0	100.0	66.7	111.2	100.0	71.4
1864	108.0	116.7	142.9	106.8	116.5	110.0	116.7	133.3	133.3	71.4
1865	108.0	166.7	171.7	128.2	150.0	125.0	150.0	166.7	200.0	92.9
1866	108.0	166.7	171.7	149.6	150.0	125.0	.....	166.7	133.3	95.3
1867	108.0	166.7	193.1	149.6	150.0	125.0	108.3	194.5	166.7	95.3
1868	120.0	166.7	193.1	149.6	166.5	125.0	108.3	194.5	166.7	117.9
1869	120.0	166.7	214.6	149.6	166.5	125.0	108.3	194.5	166.7	117.9
1870	120.0	183.3	236.1	170.9	166.5	125.0	108.3	194.5	183.3	.....
1871	120.0	178.0	257.5	170.9	166.5	110.0	116.7	194.5	183.3	95.1
1872	120.0	178.0	257.5	170.9	166.5	117.5	126.7	194.5	166.7	117.9
1873	120.0	178.0	257.5	170.9	200.0	125.0	126.7	180.5	166.7	117.9
1874	120.0	178.0	257.5	170.9	200.0	125.0	133.3	180.5	133.3	117.9
1875	120.0	178.0	257.5	170.9	200.0	110.0	133.3	180.5	116.7	117.9
1876	140.0	.....	257.5	.....	200.0	100.0	133.3	152.8	108.3	117.9
1877	140.0	.....	236.1	.....	200.0	110.0	133.3	138.8	133.3	117.9
1878	120.0	.....	236.1	.....	200.0	100.0	133.3	138.8	133.3	117.9
1879	120.0	.....	214.6	98.3	166.5	100.0	125.0	138.8	133.3	117.9
1880	120.0	133.3	214.6	98.3	166.5	100.0	125.0	138.8	.....	117.9
1881	152.0	133.3	214.6	98.3	166.5	110.0	125.0	166.7	133.3	117.9
1882	152.0	150.0	214.6	98.3	166.5	110.0	125.0	166.7	.....	117.9
1883	152.0	150.0	236.1	98.3	166.5	110.0	125.0	166.7	100.0	117.9
1884	152.0	133.3	236.1	98.3	166.5	125.0	100.0	166.7	100.0	95.3
1885	152.0	133.3	236.1	102.6	166.5	110.0	100.0	150.0	108.3	95.3
1886	152.0	133.3	236.1	102.6	166.5	125.0	100.0	150.0	108.3	95.3
1887	168.0	133.3	236.1	106.8	166.5	125.0	116.7	166.7	116.7	95.3
1888	168.0	133.3	236.1	106.8	166.5	135.0	100.0	166.7	116.7	95.3
1889	168.0	133.3	236.1	106.8	166.5	135.0	100.0	180.5	116.7	95.3
1890	168.0	133.3	236.1	106.8	225.0	135.0	108.3	180.5	133.3	95.3
1891	168.0	150.0	257.5	106.8	225.0	135.0	108.3	194.5	133.3	117.9

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

METALS AND METALLIC GOODS—Concluded.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	68. Pattern makers' apprentices.	74. Pattern makers' helpers.	57. Teamsters.	58. Teamsters.	66. Teamsters.	60. Watchmen.	66. Watchmen.	67. Watchmen.	68. Watchmen.	61. Woodworkers.
1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1843	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1844	.....	.....	.....	.....	.....	.....	.....	.....	58.8	.....
1845	63.2	.....	.....	.....	.....	50.0	.....	.....	58.8	.....
1846	75.2	.....	.....	.....	.....	50.0	.....	.....	70.0	.....
1847	.....	.....	.....	.....	.....	50.0	.....	84.0	65.2	.....
1848	.....	.....	.....	.....	.....	50.0	.....	.....	70.0	.....
1849	63.2	.....	.....	.....	.....	50.0	.....	.....	70.0	.....
1850	69.2	.....	.....	90.4	.....	50.0	.....	.....	65.2	89.2
1851	63.2	.....	.....	90.4	.....	56.7	.....	92.6	65.2	89.2
1852	69.2	.....	.....	.....	.....	56.7	.....	92.6	70.0	89.2
1853	.....	.....	.....	95.7	.....	56.7	.....	92.6	.....	90.1
1854	78.2	.....	.....	106.4	.....	56.7	.....	92.6	.....	90.1
1855	85.0	.....	107.2	106.4	.....	56.7	.....	108.0	.....	95.2
1856	91.7	.....	107.2	106.4	.....	56.7	.....	108.0	100.0	90.1
1857	100.0	.....	107.2	106.4	.....	66.7	.....	108.0	100.0	93.4
1858	.....	100.0	106.2	106.4	.....	66.7	.....	108.0	100.0	93.4
1859	.....	100.0	107.2	106.9	100.0	66.7	100.0	100.0	.....	96.4
1860	.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	.....	100.0
1861	.....	100.0	100.0	106.4	100.0	120.0	100.0	103.1	.....	110.2
1862	.....	100.0	83.5	108.0	100.0	120.0	100.0	.....	.....	112.6
1863	.....	115.4	116.0	111.7	100.0	120.0	100.0	114.8	.....	115.0
1864	63.2	115.4	131.4	123.9	116.5	120.0	100.0	114.8	.....	123.2
1865	112.8	153.8	159.3	146.3	141.5	140.0	117.0	123.5	.....	133.1
1866	.....	123.1	168.6	159.6	141.5	100.0	117.0	132.1	.....	133.1
1867	75.2	123.1	168.6	159.6	141.5	160.0	133.9	132.1	.....	157.7
1868	75.2	123.1	168.6	163.8	150.0	160.0	142.1	132.1	.....	157.7
1869	106.0	123.1	168.6	164.9	158.5	180.0	142.1	132.1	.....	157.7
1870	108.3	115.4	168.6	.....	150.0	180.0	142.1	132.1	.....	157.7
1871	112.8	115.4	168.6	.....	158.5	180.0	142.1	176.5	.....	157.7
1872	131.6	115.4	168.6	.....	150.0	180.0	142.1	176.5	.....	160.1
1873	75.2	115.4	180.4	.....	162.5	180.0	150.3	176.5	.....	157.7
1874	75.2	123.1	180.4	.....	162.5	180.0	150.3	176.5	160.0	160.2
1875	105.3	115.4	137.1	.....	162.5	144.0	150.3	176.5	160.0	160.2
1876	127.8	115.4	137.1	.....	162.5	160.0	150.3	176.5	160.0	160.2
1877	120.3	115.4	137.1	159.6	162.5	128.0	150.3	176.5	160.0	162.2
1878	105.3	100.0	137.1	.....	162.5	140.0	150.3	176.5	160.0	162.2
1879	127.8	100.0	137.1	159.6	137.5	140.0	125.1	176.5	160.0	139.6
1880	180.5	100.0	137.1	159.6	141.5	120.0	125.1	176.5	160.0	139.6
1881	75.2	100.0	137.1	141.0	141.5	120.0	125.1	176.5	160.0	146.8
1882	105.3	115.4	137.1	136.7	141.5	128.0	142.1	176.5	171.6	142.9
1883	120.3	115.4	137.1	177.1	150.0	.....	150.3	154.3	171.6	142.9
1884	142.9	115.4	137.1	136.7	150.0	128.0	150.3	165.4	171.6	142.9
1885	135.3	107.7	137.1	141.5	150.0	120.0	150.3	180.9	171.6	144.7
1886	75.2	107.7	154.6	150.0	150.0	120.0	150.3	185.2	171.6	144.7
1887	75.2	107.7	154.6	159.6	150.0	140.0	150.3	176.5	171.6	144.7
1888	120.3	100.0	154.6	159.6	150.0	140.0	175.4	176.5	171.6	144.7
1889	120.3	92.3	163.4	159.6	150.0	140.0	175.4	176.5	171.6	144.7
1890	.....	107.7	163.4	159.6	150.0	140.0	175.4	176.5	160.0	147.4
1891	75.2	107.7	163.4	159.6	150.0	140 0	175.4	176.5	160.0	147.4

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

METALS AND METALLIC GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	58. Laborers.	59. Laborers.	60. Laborers.	61. Laborers.	62. Laborers.	66. Laborers.	67. Laborers.	71. Laborers.	73. Laborers.	74. Laborers.	54. Machinists.
1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1843	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1844	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1845	.....	.....	52.0	.....	.....	.....	.....	.....	.....	.....	.....
1846	.....	.....	52.0	88.9	58.8	.....	79.8	.....	.....	.....	.....
1847	.....	.....	56.0	88.9	71.5	.....	83.7	100.0	.....	.....	.....
1848	.....	.....	56.0	88.9	76.8	.....	87.1	100.0	.....	.....	.....
1849	.....	.....	56.0	88.9	80.7	.....	85.4	100.0	.....	80.0	.....
1850	101.7	.....	60.0	88.9	78.9	.....	87.1	100.0	.....	80.0	.....
1851	101.7	.....	60.0	88.9	79.4	.....	89.3	100.0	.....	100.0	.....
1852	100.0	.....	60.0	88.9	79.4	.....	90.4	100.0	.....	100.0	.....
1853	103.9	88.9	60.0	100.0	80.7	.....	91.0	103.0	.....	100.0	113.3
1854	100.0	94.4	60.0	100.0	82.0	.....	91.6	112.5	100.0	100.0	100.6
1855	98.9	100.0	60.0	111.1	.....	.....	97.2	100.0	100.0	100.0	97.5
1856	101.1	100.0	60.0	111.1	87.7	.....	97.8	103.0	100.0	100.0	100.6
1857	102.8	100.0	80.0	88.9	100.0	.....	103.9	102.0	100.0	100.0	100.6
1858	97.8	100.0	80.0	88.9	98.7	.....	103.4	103.0	100.0	100.0	100.6
1859	97.8	100.0	80.0	100.0	91.7	100.0	99.4	103.0	100.0	100.0	92.9
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	101.1	100.0	120.0	111.1	87.7	100.0	99.4	100.0	100.0	110.0	102.0
1862	99.4	100.0	120.0	111.1	87.7	97.0	96.6	101.5	100.0	110.0	97.2
1863	104.5	100.0	140.0	118.2	100.0	100.6	103.4	111.0	105.5	140.0	96.0
1864	109.6	100.0	140.0	133.3	117.1	125.1	134.3	129.5	123.0	140.0	110.8
1865	142.7	144.4	128.0	133.3	80.7	165.9	174.2	150.0	158.5	150.0	148.7
1866	152.8	166.7	160.0	122.2	121.5	167.1	169.7	152.0	158.5	150.0	144.8
1867	154.5	155.6	140.0	144.4	129.4	164.7	172.5	152.0	158.5	150.0	160.6
1868	167.4	155.6	140.0	144.4	116.7	179.6	172.5	152.5	154.0	150.0	158.6
1869	151.1	155.6	144.0	155.6	116.7	179.6	191.0	157.5	154.5	150.0	159.5
1870	159.6	155.6	140.0	155.6	138.6	179.6	192.1	164.0	154.0	130.0	152.1
1871	157.3	155.6	160.0	155.6	129.4	179.6	194.9	167.0	130.0	130.0	155.8
1872	155.1	155.6	144.0	155.6	127.6	183.2	193.3	167.5	130.0	130.0	148.4
1873	156.7	177.8	140.0	155.6	121.5	207.2	196.6	166.5	133.5	130.0	160.1
1874	148.9	177.8	140.0	155.6	127.6	207.2	199.4	167.5	140.0	130.0	156.4
1875	148.9	166.7	112.0	148.7	131.6	206.0	196.6	158.0	130.0	130.0	145.6
1876	144.9	200.0	108.0	134.7	.....	140.7	191.6	157.0	130.0	120.0	144.8
1877	144.9	211.1	89.6	134.7	.....	152.7	174.7	144.5	120.0	120.0	142.5
1878	137.1	211.1	89.6	134.7	.....	152.7	174.7	139.5	120.0	100.0	130.0
1879	139.3	194.4	88.0	133.3	104.4	149.7	174.7	135.0	120.0	100.0	134.0
1880	120.8	194.4	92.0	122.2	103.5	154.5	154.5	142.0	120.0	130.0	132.0
1881	118.5	222.2	100.0	126.7	108.3	152.7	160.1	151.5	120.0	120.0	134.8
1882	121.9	222.2	100.0	139.6	108.8	152.7	165.2	158.5	130.0	120.0	134.0
1883	123.6	222.2	.....	136.4	106.1	179.6	176.4	170.5	140.0	120.0	136.5
1884	121.9	222.2	112.0	137.3	105.3	155.7	195.5	166.0	140.0	120.0	140.8
1885	131.5	222.2	104.0	141.8	108.3	141.9	176.4	154.0	130.0	110.0	143.3
1886	129.8	166.7	96.0	141.8	111.8	151.5	175.8	153.0	120.0	110.0	135.7
1887	134.7	166.7	104.0	140.9	114.0	179.6	186.5	172.5	120.0	110.0	138.5
1888	130.3	166.7	100.0	137.3	114.0	177.8	186.5	170.5	120.0	120.0	140.8
1889	133.1	166.7	100.0	135.6	124.1	177.8	178.1	170.5	130.0	120.0	141.4
1890	133.1	166.7	100.0	135.6	109.6	179.6	177.0	167.0	130.0	120.0	142.5
1891	130.3	166.7	100.0	135.6	109.6	179.6	177.5	171.5	130.0	120.0	142.5

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

METALS AND METALLIC GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	55. Machinists.	56. Machinists.	57. Machinists.	58. Machinists.	59. Machinists.	60. Machinists.	61. Machinists.	62. Machinists.	65. Machinists.	66. Machinists.
1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1843	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1844	.....	.....	.....	.....	.....	.....	84.1	.....	.....	.....
1845	.....	.....	.....	.....	.....	90.1	84.1	84.1	.....	.....
1846	.....	.....	.....	.....	.....	90.1	91.7	86.5	.....	.....
1847	.....	.....	.....	.....	.....	90.1	91.7	92.2	.....	.....
1848	.....	.....	.....	.....	.....	90.1	107.0	90.9	.....	.....
1849	.....	.....	.....	.....	.....	90.1	107.0	93.9	.....	.....
1850	.....	.....	.....	94.2	.....	93.7	92.7	95.6	.....	.....
1851	.....	.....	.....	93.6	.....	92.5	92.7	95.6	.....	.....
1852	.....	.....	.....	93.0	.....	85.9	92.7	104.4	.....	.....
1853	.....	97.7	.....	93.9	100.0	85.9	90.5	94.9	.....	.....
1854	106.4	97.1	.....	96.2	110.0	85.9	95.1	101 0	.....	.....
1855	100.9	110.2	.....	99.1	100.0	85.9	91.7	98.0	.....	.....
1856	102.4	111.4	97.3	97.1	100.0	78.1	93.6	100.3	84.8	.....
1857	108.5	101.5	105.2	99.1	106.7	84.1	94.2	100.0	94.4	.....
1858	107.3	104.7	101.8	94.5	106.7	100.0	93.8	95.6	86.7	.....
1859	100.0	102.0	101.8	97.4	100.0	100.0	96.9	90.5	100.0	100.0
1860	.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	.....	100.0
1861	.....	97.7	102.7	99.7	100.0	108.1	104.0	102.0	.....	100 0
1862	107.9	99.1	98.5	100.0	100.0	132.1	108.0	105.1	.....	100.0
1863	122.2	106.1	111.6	102.9	100.0	180.2	107.6	109.8	91.7	137.3
1864	141.3	119.2	124.9	119.8	120.0	165.2	117.1	116.6	100.0	133.3
1865	170.5	127.4	163.8	136.0	150.0	180.2	130.0	134.1	117.3	163.1
1866	173.3	143.4	168.7	140.7	156.7	180.2	142.8	144.3	128.3	163.1
1867	180.2	147.5	169.3	148.0	166.7	180.2	148.6	135.1	128.3	163.1
1868	182.7	146.4	171.1	148.3	166.7	180.2	148.6	128.7	127.2	200.0
1869	174.5	145.5	172.3	145.9	166.7	180.2	151.7	154.1	128.3	200.0
1870	179.0	166.5	155.3	153.5	166.7	180.2	146.5	163.2	128.3	200.0
1871	177.8	169.4	160.5	149.7	166.7	180.2	149.2	153.7	127.2	200.0
1872	.....	162.7	159.0	155.2	166.7	180.2	149.8	142.2	126.9	200.0
1873	170.8	170.3	161.1	157.0	156.7	180.2	148.3	136.1	126.9	177.8
1874	.....	185.4	161.4	143.3	156.7	180.2	150.8	143.6	130.1	222.2
1875	.....	183.7	155.3	147.1	156.7	144.1	151.7	129.4	132.8	222.2
1876	.....	157.1	152.6	144.5	150.0	144.1	148.3	67.6	132.8	222.2
1877	.....	137.0	140.7	132.6	150.0	115.3	138.2	.....	131.5	222.2
1878	.....	119.8	140.7	136.6	150.0	115.3	135.2	.....	131.5	222.2
1879	.....	119.2	141.0	137.8	133.3	115.3	127.2	106.1	129.9	222.2
1880	.....	125.1	145.0	126.7	133.3	130.0	127.8	106.4	131.5	188.9
1881	.....	128.9	159.9	135.2	166.7	135.1	135.8	107.1	129.3	188.9
1882	.....	135.9	160.8	140.7	166.7	144.1	144.0	108.1	125.6	222.2
1883	.....	146.4	162.0	148.5	150.0	.....	144.6	108.1	138.1	222.2
1884	.....	145.8	163.8	142.7	150.0	141.1	145.0	112.8	138.4	222.2
1885	.....	136.4	155.6	144.2	166.7	144.1	143.7	115.2	136.0	222.2
1886	.....	136.2	155.0	138.1	150.0	132.1	144.3	112.8	133.3	222.2
1887	.....	132.9	154.7	142.2	150.0	135.1	144.3	121.3	137.1	200.0
1888	.....	133.2	153.8	139.0	150.0	135.1	145.9	105.7	145.9	222.2
1889	.....	124.5	155.9	143.6	150.0	135.1	149.2	109.8	145.9	222.2
1890	.....	141.1	155.0	139.5	150.0	135.1	150.8	115.9	145.9	222.2
1891	.....	137.9	155.6	141.3	150.0	135.1	153.2	118.9	145.9	222.2

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

METALS AND METALLIC GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Years.	67. Machinists.	68. Machinists.	69. Machinists.	70. Machinists.	72. Machinists.	73. Machinists.	74. Machinists.	56. Machinists' apprentices.	62. Machinists' apprentices.	67. Machinists' apprentices.
1840	.....	.....	.....	.....	100.0	.....	.....	.....	.....	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	.....	.....	.....	109.1	.....	.....	.....	.....	.....
1843	.....	90.9	.....	.....	95.6	.....	.....	.....	.....	.....
1844	.....	90.9	.....	.....	92.4	.....	.....	.....	.....	.....
1845	.....	93.8	.....	.....	108.4	.....	.....	.....	112.4	.....
1846	89.9	94.2	.....	83.4	104.0	.....	.....	.....	127.8	.....
1847	88.7	100.7	.....	90.5	.....	.....	.....	.....	123.7	.....
1848	87.4	100.0	.....	97.6	110.9	.....	.....	.....	110.3	.....
1849	95.3	106.2	.....	96.1	100.0	.....	79.7	.....	108.2	50.0
1850	97.2	102.2	.....	92.1	.....	.....	78.8	.....	118.6	83.3
1851	99.7	103.3	107.4	99.5	.....	.....	78.8	.....	103.1	72.7
1852	96.9	106.2	105.0	100.0	100.0	.....	78.2	.....	115.5	66.7
1853	95.9	.....	117.8	96.6	100.0	.....	76.9	.....	103.1	80.0
1854	106.3	113.8	110.7	96.1	109.1	93.8	80.9	122.0	107.2	66.7
1855	106.0	118.5	132.9	92.1	109.1	92.4	94.2	126.0	106.2	66.7
1856	111.9	125.5	135.2	92.1	102.9	93.0	93.9	122.8	114.4	83.3
1857	111.3	119.6	134.2	94.2	106.2	95.9	93.3	142.3	124.7	100.0
1858	108.2	109.1	114.1	95.5	109.1	92.4	99.1	97.6	111.3	.....
1859	99.4	.....	96.6	89.5	109.1	103.2	100.3	130.1	129.9	.....
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	.....
1861	102.2	.....	98.7	98.7	102.2	102.1	100.9	100.8	99.0	.....
1862	95.6	107.3	103.4	96.6	102.9	103.2	112.4	107.3	134.0	.....
1863	101.3	117.1	115.1	103.9	.....	102.9	112.1	96.9	118.4	44.0
1864	115.4	130.5	234.9	125.0	.....	115.8	124.2	103.3	114.4	58.0
1865	153.1	158.2	156.7	154.7	181.5	161.9	137.9	129.3	166.0	.....
1866	152.5	156.4	168.1	162.1	174.2	173.3	157.6	144.7	155.7	116.7
1867	157.2	176.4	173.8	177.6	172.7	167.2	163.9	149.6	163.9	133.3
1868	164.2	186.9	176.2	165.0	181.8	168.0	163.6	151.2	168.0	66.7
1869	157.2	172.4	176.5	166.6	167.3	170.1	159.1	171.5	150.5	100.7
1870	157.2	172.0	165.1	176.8	.....	170.7	159.1	174.8	138.1	89.3
1871	154.7	174.5	166.8	168.4	172.4	164.5	144.8	155.3	142.3	133.3
1872	159.1	171.6	.....	174.2	176.4	166.0	141.5	154.5	141.2	133.3
1873	152.2	170.5	152.7	176.3	191.6	159.5	157.0	154.5	.....	66.7
1874	164.5	164.0	159.4	171.1	174.9	159.8	157.3	.....	127.8	100.0
1875	165.7	173.5	.....	167.4	160.0	141.3	140.9	146.3	139.2	66.7
1876	158.8	156.4	.....	156.1	156.4	128.4	127.6	162.6	160.8	133.3
1877	137.4	145.1	146.0	157.9	154.9	123.5	129.7	170.7	.....	.....
1878	134.9	143.6	125.5	149.7	153.5	114.1	127.6	178.9	.....	.....
1879	133.0	155.3	128.2	151.3	.....	125.8	127.6	162.6	.....	.....
1880	129.6	146.2	132.6	140.3	153.1	123.8	127.9	189.4	.....	.....
1881	140.6	153.5	149.0	151.8	160.4	135.5	136.4	146.3	.....	70.0
1882	154.4	163.6	160.7	141.1	170.2	148.4	138.5	142.3	.....	78.0
1883	151.9	168.7	163.4	143.4	171.6	146.6	142.4	119.5	.....	101.3
1884	157.2	167.6	167.4	146.3	170.2	147.5	141.3	140.7	.....	106.0
1885	149.4	153.1	171.8	136.6	165.1	138.1	129.7	162.6	.....	133.3
1886	150.6	136.0	153.7	145.3	156.4	138.1	139.4	158.5	.....	.....
1887	153.1	143.3	154.4	136.8	170.2	138.4	144.5	130.1	.....	.....
1888	154.7	148.7	158.4	137.1	167.6	138.1	157.6	156.9	.....	53.3
1889	155.3	152.0	162.1	140.8	169.5	143.4	162.7	170.7	.....	75.3
1890	156.3	150.9	163.8	141.6	173.8	143.7	175.8	154.5	.....	42.0
1891	159.4	151.3	168.5	139.2	166.5	143.4	175.2	122.0	.....	64.7

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

METALS AND METALLIC GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	68. Machinists' apprentices.	69. Machinists' apprentices.	54. Machinists' helpers.	55. Machinists' helpers.	56. Machinists' helpers.	58. Machinists' helpers.	67. Machinists' helpers.	68. Machinists' helpers.	69. Machinists' helpers.	72. Masons.
1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	68.0
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....	68.0
1842	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1843	.....	.....	.....	.....	.....	.....	.....	82.9	.....	.....
1844	94.5	.....	.....	.....	.....	.....	.....	87.3	.....	.....
1845	86.2	.....	.....	.....	.....	.....	.....	82.9	.....	69.0
1846	86.2	.....	.....	.....	.....	.....	.....	96.7	.....	68.0
1847	96.3	.....	.....	.....	.....	.....	.....	82.9	.....	70.0
1848	96.3	.....	.....	.....	.....	.....	.....	82.9	.....	68.0
1849	87.2	.....	.....	.....	.....	.....	.....	82.9	.....	.....
1850	88.1	.....	.....	.....	.....	100.8	.....	78.5	.....	64.0
1851	108.3	92.4	.....	.....	.....	98.8	.....	80.7	67.2	60.0
1852	91.7	88.9	.....	.....	.....	98.4	68.5	91.2	80.0	60.0
1853	.....	58.5	.....	.....	104.3	98.4	72.1	.....	84.0	80.0
1854	91.7	117.0	107.3	87.7	100.0	97.7	82.2	104.4	80.0	80.0
1855	91.7	95.3	97.0	86.8	112.1	98.1	85.4	108.3	80.0	90.0
1856	100.0	.....	97.0	96.0	112.1	101.6	92.2	111.0	80.0	76.0
1857	97.2	102.3	97.0	96.9	112.1	98.8	106.4	117.7	80.0	72.6
1858	.....	.....	103.0	88.1	101.4	98.8	101.4	110.5	.....	85.0
1859	.....	67.8	111.2	100.0	100.0	98.0	97.7	.....	88.4	76.6
1860	100.0	100.0	100.0	.....	100.0	100.0	100.0	100.0	100.0	100.0
1861	.....	86.0	126.3	.....	105.3	99.6	100.0	.....	98.0	100.0
1862	89.0	99.4	109.1	98.7	106.3	99.6	95.4	.....	101.6	86.6
1863	101.8	89.5	125.4	110.1	108.2	100.0	93.6	.....	80.0	81.6
1864	89.9	.....	128.9	115.4	126.9	99.2	125.6	.....	.....	92.2
1865	115.6	85.4	133.6	126.9	141.3	111.7	146.1	.....	98.4	104.4
1866	122.0	94.2	123.3	129.5	141.8	120.7	139.3	.....	110.0	109.3
1867	149.5	78.4	140.1	138.8	149.0	118.8	138.8	110.5	100.0	108.8
1868	160.6	108.8	147.0	148.5	148.1	119.5	146.1	132.6	.....	108.8
1869	133.0	113.5	141.8	144.5	159.1	120.3	148.4	132.6	100.0	108.8
1870	118.3	98.8	130.2	152.9	165.4	119.1	142.9	127.1	101.6	116.6
1871	130.3	71.3	122.0	157.3	165.4	121.9	130.6	143.6	102.4	125.6
1872	107.3	.....	.....	.....	164.9	118.8	142.5	121.5	.....	125.6
1873	135.8	99.4	93.5	.....	172.6	117.2	159.8	165.7	.....	127.3
1874	133.0	77.2	105.6	.....	176.0	121.1	146.1	.....	130.0	119.0
1875	173.4	.....	136.6	.....	174.0	117.2	146.1	.....	.....	105.0
1876	161.5	.....	140.1	.....	155.3	136.3	146.1	.....	.....	105.0
1877	119.3	73.5	122.0	.....	139.9	148.4	155.3	163.0	108.8	103.4
1878	106.4	66.1	142.2	.....	125.0	125.0	144.7	165.7	104.8	105.0
1879	128.4	87.1	116.8	.....	125.0	127.7	138.4	154.7	94.8	97.0
1880	155.0	86.5	115.5	.....	129.8	129.3	127.9	139.2	102.4	100.0
1881	123.9	98.2	122.0	.....	129.8	125.4	142.0	139.8	105.2	102.0
1882	96.3	112.3	114.7	.....	127.9	125.0	130.1	154.7	115.2	117.0
1883	113.8	83.0	114.2	.....	133.2	127.3	132.4	160.2	118.8	119.4
1884	131.2	92.4	119.0	.....	139.4	127.3	153.4	165.7	118.8	120.4
1885	138.5	107.0	124.1	.....	135.1	127.0	147.0	149.2	120.9	125.0
1886	125.7	105.8	133.6	.....	138.5	128.5	141.8	138.1	108.9	120.0
1887	116.5	93.0	140.1	.....	140.4	130.5	140.0	138.1	114.8	125.0
1888	127.5	87.7	129.3	.....	138.9	126.6	142.9	143.6	116.0	126.6
1889	130.3	95.3	102.6	.....	136.5	127.3	144.7	151.9	116.8	125.0
1890	134.9	103.5	109.9	.....	130.8	123.8	140.6	154.7	122.0	128.0
1891	118.3	138.6	103.9	.....	141.3	126.2	137.0	143.6	126.4	140.0

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

METALS AND METALLIC GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	72. Masons' helpers.	74. Millwrights.	54. Moulders.	56. Moulders.	57. Moulders.	58. Moulders, iron.	67. Moulders.	68. Moulders.	71. Moulders.	73. Moulders.	74. Moulders.
1840	99.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1841	77.7	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1843	.....	.....	.....	.....	.....	.....	.....	87.5	.....	.....	.....
1844	.....	.....	.....	.....	.....	.....	.....	90.1	.....	.....	.....
1845	81.3	.....	.....	.....	.....	.....	.....	92.8	.....	.....	.....
1846	77.7	.....	.....	.....	.....	.....	81.3	97.7	.....	.....	.....
1847	84.5	.....	.....	.....	.....	.....	84.0	92.4	80.9	.....	.....
1848	90.7	.....	.....	.....	.....	.....	82.8	101.1	80.9	.....	.....
1849	.....	.....	.....	.....	.....	.....	89.5	101.5	85.1	.....	.....
1850	90.7	.....	.....	.....	.....	100.0	88.0	98.9	83.0	.....	.....
1851	90.7	75.0	.....	.....	.....	99.7	91.3	97 7	84.6	.....	.....
1852	90.7	85.0	.....	.....	.....	101.0	93.1	101.9	88.6	.....	.....
1853	84.5	95.0	.....	94.4	.....	99.4	93.7	.....	93.6	.....	.....
1854	95.9	100.0	107.7	93.5	.....	102.2	103.0	105.7	101.9	91.7	88.2
1855	91.3	100.0	.....	105.9	.....	103.2	100.0	108.0	96.3	97.9	88.2
1856	96.9	100.0	.....	102.3	104.0	101.0	98.8	112.9	97.9	100.0	88.2
1857	86.5	100.0	.....	104.6	98.9	101.9	100.6	119.8	102.7	101.8	88.2
1858	77.7	100.0	.....	105.6	97.6	92.9	109.3	117.1	104.2	104.0	88.2
1859	86.5	100.0	.....	103.9	100.8	101.6	100.9	.....	103.2	105.5	88.2
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	100.0	123.1	101.6	103.5	102.2	101.5	.....	101.6	96.9	117.6
1862	89.1	100.0	123.1	103.6	107.0	101.3	99.7	116.7	103.7	96.3	117.6
1863	108.8	100.0	119.1	105.2	103.5	105.4	103.0	117.1	106.9	93.9	129.4
1864	120.7	115.0	125.5	113.4	113.6	119.9	119.3	123.2	131.6	112.2	147.1
1865	118.2	150.0	152.0	144.8	134.8	140.7	140.7	149.4	163.7	132.4	176.5
1866	148.7	185.0	146.8	141.5	141.4	152.6	142.2	148.7	170.0	152.9	176.5
1867	153.9	185.0	157.5	142.5	140.4	156.4	145.2	151.0	171.9	152.9	176.5
1868	148.7	185.0	155.7	149.7	141.4	158.0	168.4	146.8	173.7	152.9	152.9
1869	148.7	165.0	164.9	151.0	142.8	154.8	173.2	154.0	173.7	152.9	152.9
1870	165.3	175.0	161.5	154.2	141.4	156.7	173.2	156.3	179.6	152.9	152.9
1871	148.7	175.0	158.5	166.0	149.5	156.1	180.7	156.3	179.6	143.4	152.9
1872	148.7	187.5	164.9	156.9	141.7	156.7	168.7	173.8	176.4	149.8	176.5
1873	162.2	175.0	159.4	165.0	142.5	155.4	175.6	160.1	174.5	157.2	176.5
1874	148.7	155.0	159.7	170.3	142.5	147.4	163.9	151.0	168.2	155.4	.....
1875	129.5	140.0	158.5	169.0	131.8	141.7	172.0	157.0	154.6	142.8	.....
1876	129.5	150.0	154.5	140.3	128.3	138.5	172.0	157.8	148.5	129.7	.....
1877	129.5	150.0	150.8	135.9	115.0	140.1	146.7	158.9	135.3	124.2	.....
1878	129.5	125.0	149.2	125.5	115.8	137.8	147.9	158.6	135.5	124.5	129.4
1879	103.6	125.0	135.4	123.5	116.3	140.1	147.9	153.6	134.0	125.4	129.4
1880	126.4	125.0	140.9	125.5	117.1	133.7	134.6	139.9	130.2	140.4	129.4
1881	129.0	125.0	138.5	130.4	130.5	135.3	134.6	146.8	139.3	144.6	141.2
1882	140.9	125.0	148.3	150.3	128.3	142.3	141.9	157.0	140.6	152.0	141.2
1883	.....	140.0	150.8	152.6	129.7	143.3	160.2	160.5	155.4	151.7	141.2
1884	145.1	140.0	148.6	153.3	131.3	137.2	159.9	160.8	150.9	151.4	141.2
1885	151.3	125.0	148.6	142.8	132.1	135.9	151.8	154.0	148.5	142.8	123.5
1886	145.1	125.0	147.7	141.2	131.8	136.2	147.9	142.2	148.5	143.1	123.5
1887	158.5	125.0	152.6	140.5	133.4	138.8	155.4	143.7	162.6	146.8	147.1
1888	159.6	140.0	145.5	140.8	132.6	141.3	163.9	155.1	162.9	152.0	147.1
1889	159.6	140.0	148.3	143.8	131.8	134.6	163.3	158.2	160.7	152.6	147.1
1890	.....	140.0	143.4	142.5	133.4	144.2	159.0	153.2	156.2	150.8	147.1
1891	159.6	140.0	149.5	143.5	131.3	146.5	158.7	154.8	164.7	150.8	147.1

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

METALS AND METALLIC GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	56. Moulders' apprentices.	67. Moulders' apprentices.	68. Moulders' apprentices.	54. Moulders' helpers.	56. Moulders' helpers.	67. Moulders' helpers.	68. Moulders' helpers.	57. Painters.	54. Pattern makers.	55. Pattern makers.
1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1843	.....	.....	84.0	.....	.....	.....	92.4	.....	.....	.....
1844	.....	.....	89.0	.....	.....	.....	101.4	.....	.....	.....
1845	.....	.....	95.0	.....	.....	.....	104.2	.....	.....	.....
1846	.....	92.6	107.0	.....	.....	.....	113.2	.....	.....	.....
1847	.....	129.6	111.0	.....	.....	.....	113.2	.....	.....	.....
1848	.....	74.1	101.0	.....	.....	.....	104.2	.....	.....	.....
1849	.....	69.6	103.0	.....	.....	.....	122.9	.....	.....	.....
1850	.....	82.2	100.0	.....	.....	.....	111.8	.....	.....	.....
1851	.....	69.6	109.0	.....	.....	.....	106.3	.....	.....	.....
1852	.....	98.5	86.0	.....	.....	.....	110.4	.....	.....	.....
1853	.....	68.1	.....	.....	82.8	.....	.....	.....	.....	.....
1854	.....	74.1	100.0	90.9	89.8	100.0	114.6	.....	100.0	101.8
1855	100.0	92.6	112.0	.....	93.0	100.0	119.4	.....	119.1	103.9
1856	100.0	111.1	119.0	.....	96.7	105.3	119.4	.....	95.4	111.3
1857	102.7	76.3	127.0	.....	94.9	104.0	125.7	.....	100.0	108.4
1858	113.6	82.2	133.0	.....	100.0	100.0	122.2	.....	114.3	97.3
1859	140.9	83.0	.....	.....	96.3	100.0	.....	.....	114.3	100.9
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	.....
1861	115.5	103.0	.....	100.4	96.7	97.3	121.5	106.7	85.7	.....
1862	119.1	111.1	84.0	108.6	94.9	98.2	120.1	74.8	100.0	.....
1863	120.9	.....	117.0	108.2	98.1	94.7	134.7	106.7	89.4	109.6
1864	204.5	.....	106.0	109.5	110.2	107.6	161.8	95.8	110.6	129.0
1865	154.5	98.5	148.0	141.6	131.6	125.8	138.9	143.8	138.0	146.6
1866	181.8	111.1	84.0	120.2	131.6	144.4	153.5	159.7	171.4	160.6
1867	170.0	86.7	96.0	133.7	135.3	148.0	173.6	159.7	185.7	177.3
1868	181.8	74.1	108.0	123.5	136.3	116.9	166.7	159.7	200.0	177.3
1869	175.5	123.7	133.0	130.5	138.6	153.3	.....	159.7	200.0	177.3
1870	.....	100.0	133.0	109.9	151.2	153.3	201.4	159.7	185.7	191.9
1871	163.6	100.0	133.0	114.4	151.2	166.7	173.6	159.7	209.4	201.5
1872	168.2	148.1	100.0	130.5	153.0	155.6	173.6	159.7	200.0	.....
1873	227.3	.....	120.0	137.0	155.3	166.7	191.0	159.7	200.0	186.6
1874	193.6	74.1	127.0	108.6	160.0	177.8	180.6	159.7	207.1	.....
1875	200.0	74.1	130.0	130.5	159.5	177.8	175.7	143.8	242.9	.....
1876	.....	98.5	124.0	130.5	147.0	177.8	173.6	.....	178.6	.....
1877	181.8	.....	127.0	112.3	133.5	144.4	173.6	.....	178.6	.....
1878	200.0	.....	137.0	120.2	117.2	144.4	177.8	.....	160.9	.....
1879	.....	.....	147.0	119.3	118.6	144.4	156.9	.....	138.0	.....
1880	128.2	.....	145.0	117.3	116.3	137.8	164.6	111.8	121.4	.....
1881	153.6	.....	170.0	123.0	120.5	137.8	177.8	111.8	138.0	.....
1882	132.7	.....	120.0	115.2	123.3	144.4	184.0	111.8	150.0	.....
1883	150.9	.....	150.0	128.8	134.0	155.6	191.7	111.8	152.3	.....
1884	150.9	.....	180.0	104.5	136.3	140.0	197.2	111.8	147.7	.....
1885	166.4	.....	140.0	120.6	132.6	140.0	181.9	111.8	135.7	.....
1886	120.9	.....	120.0	117.7	126.5	140.0	177.8	111.8	142.9	.....
1887	120.9	.....	120.0	121.0	126.0	140.0	183.3	111.8	146.6	.....
1888	152.7	.....	120.0	114.4	128.8	140.0	183.3	111.8	152.4	.....
1889	140.0	.....	.....	118.5	129.8	140.0	186.1	111.8	152.3	.....
1890	150.0	.....	120.0	116.0	128.4	.....	188.2	127.8	152.3	.....
1891	163.6	.....	160.0	114.4	133.0	.....	186.1	127.8	152.3	.....

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

METALS AND METALLIC GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	56. Pattern makers.	57. Pattern makers.	59. Pattern makers.	60. Pattern makers.	62. Pattern makers.	67. Pattern makers.	68. Pattern makers.	71. Pattern makers.	73. Pattern makers.	74. Pattern makers.
1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1843	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1844	.....	.....	.....	.....	.....	.....	108.5	.....	.....	.....
1845	.....	.....	.....	78.0	59.9	.....	116.3	.....	.....	.....
1846	.....	.....	.....	78.0	64.7	86.0	111.2	.....	.....	.....
1847	.....	.....	.....	78.0	67.4	83.3	113.2	74.5	.....	.....
1848	.....	.....	.....	78.0	79.9	86.7	110.1	74.5	.....	.....
1849	.....	.....	.....	78.0	79.9	88.3	108.5	80.9	.....	97.7
1850	.....	.....	.....	78.0	74.9	87.7	108.9	84.9	.....	97.7
1851	.....	.....	.....	77.0	74.9	89.7	101.9	87.2	.....	97.7
1852	.....	.....	.....	77.0	92.2	93.7	109.3	89.3	.....	97.7
1853	86.9	.....	80.0	77.0	79.6	95.7	.....	89.8	.....	.....
1854	83.2	.....	85.7	96.3	89.8	100.0	121.7	95.7	.....	.....
1855	86.7	.....	85.7	96.3	100.0	106.3	131.4	95.7	.....	97.7
1856	86.7	97.2	85.7	87.5	100.0	106.3	145.3	93.6	.....	112.4
1857	93.3	100.3	91.4	87.5	94.9	105.7	135.7	95.7	98.1	112.4
1858	86.7	102.8	105.7	93.8	100.0	105.3	.....	91.3	101.6	100.0
1859	100.0	105.9	105.7	93.8	85.0	100.0	.....	91.3	100.0	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	105.9	100.0	105.0	94.6	100.0	126.0	97.2	112.3	101.0
1862	100.0	99.4	100.0	112.5	.....	94.3	116.3	94.4	112.3	107.5
1863	100.0	104.0	100.0	125.0	.....	94.3	116.3	99.2	119.2	120.5
1864	109.1	118.5	114.3	150.0	119.8	105.7	143.0	125.3	152.4	130.3
1865	140.0	153.1	137.1	175.0	.....	136.0	168.6	145.4	175.4	159.0
1866	142.1	177.5	142.9	175.0	149.7	135.3	180.2	146.9	172.6	175.9
1867	160.0	172.2	142.9	175.0	179.6	139.0	191.9	155.9	173.5	182.4
1868	164.5	175.6	142.9	175.0	179.6	150.0	210.9	167.6	163.1	182.4
1869	168.8	181.2	142.9	160.0	179.6	155.7	209.3	177.0	163.1	175.9
1870	182.1	180.6	162.9	150.0	179.6	155.7	202.7	176.5	163.1	185.7
1871	173.3	183.6	142.9	150.0	179.6	183.3	177.1	174.0	151.4	179.2
1872	176.8	185.2	171.4	150.0	179.6	183.3	205.4	171.7	159.9	185.0
1873	182.1	175.6	171.4	150.0	.....	170.0	173.6	175.3	164.0	187.3
1874	186.7	173.8	171.4	150.0	.....	170.0	193.8	172.2	172.6	188.9
1875	186.7	177.5	171.4	120.0	.....	175.0	193.8	161.2	155.2	159.0
1876	153.3	165.7	171.4	125.0	.....	175.0	176.4	149.5	136.3	140.7
1877	162.7	155.6	171.4	100.0	.....	166.7	160.1	134.2	132.5	140.7
1878	145.3	159.6	142.9	112.5	.....	172.3	134.5	123.7	126.2	130.3
1879	144.0	157.4	142.9	115.0	.....	158.3	139.5	122.2	123.0	130.3
1880	132.0	154.3	128.6	118.3	.....	136.0	134.5	129.1	135.0	130.3
1881	132.0	156.5	142.9	115.0	.....	143.0	141.5	141.8	140.4	138.1
1882	138.7	171.6	142.9	122.5	.....	150.0	166.7	160.5	153.9	154.1
1883	138.7	160.2	157.1	.....	.....	169.0	173.6	173.0	154.6	165.1
1884	132.5	158.6	157.1	120.0	.....	175.0	187.6	178.6	154.6	165.1
1885	132.5	151.2	142.9	125.0	.....	170.0	177.1	165.8	143.8	143.3
1886	142.7	154.3	142.9	115.0	.....	163.3	167.8	169.1	145.1	143.3
1887	140.5	158.6	157.1	112.5	.....	150.0	165.1	158.2	157.7	159.5
1888	145.9	154.3	157.1	112.5	.....	153.3	164.0	162.2	170.3	172.3
1889	149.3	154.3	157.1	125.0	.....	157.0	162.8	160.7	170.3	172.3
1890	158.1	154.3	157.1	125.0	.....	162.3	160.1	162.2	170.3	172.3
1891	160.0	158.6	157.1	125.0	.....	172.3	178.3	165.1	170.3	172.2

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

WOOLLEN GOODS.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	88. Alley boys.	88. Burlers.	86. Card cleaners.	88. Card feeders.	86. Card tenders.	87. Card tenders.	87. Carders	86. Carpenters.	88. Cleaners.	86. Drawers-in.
1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1843	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1844	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1845	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1846	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1847	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1848	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1849	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1850	106.3	92.6	.....	100.0	.....	.....	.....	.....	110.8	.....
1851	106.3	92.6	.....	100.0	.....	.....	.....	.....	110.8	.....
1852	106.3	92.6	.....	100.0	.....	.....	.....	.....	110.8	.....
1853	106.3	92.6	.....	100.0	.....	.....	.....	.....	110.8	.....
1854	106.3	92.6	.....	100.0	.....	.....	.....	.....	106.0	.....
1855	106.3	92.6	.....	100.0	.....	.....	.....	.....	106.0	.....
1856	100.0	92.6	.....	100.0	.....	.....	.....	.....	106.0	.....
1857	100.0	92.6	.....	100.0	.....	.....	.....	.....	106.0	.....
1858	100.0	100.0	.....	100.0	.....	.....	.....	.....	106.0	.....
1859	100.0	100.0	89.9	100.0	93.3	83.5	89.3	133.3	100.0	93.5
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	100.0	111.6	100.0	106.7	129.1	107.5	.....	90.4	.....
1862	100.0	100.0	137.7	100.0	105.8	131.6	102.5	.....	90.4	119.4
1863	79.4	100.0	102.9	86.2	107.5	138.0	108.8	108.0	90.4	119.4
1864	92.1	100.0	109.4	122.4	112.5	141.8	122.0	.....	100.0	.....
1865	100.0	107.4	154.3	143.1	142.5	154.4	115.7	108.0	85.5	201.6
1866	100.0	124.1	138.4	151.7	122.5	173.4	148.4	150.0	88.0	221.8
1867	112.7	131.5	123.2	137.9	130.0	164.6	140.3	.....	80.1	.....
1868	112.7	131.5	142.0	137.9	120.8	168.4	149.1	.....	80.1	201.6
1869	112.7	148.1	148.6	137.9	120.0	174.7	146.5	.....	80.1	201.6
1870	119.0	150.9	156.5	143.1	105.0	182.3	150.3	183.3	121.1	201.6
1871	116.7	150.9	150.0	136.2	114.2	170.9	144.7	183.3	121.1	201.6
1872	131.7	149.1	161.6	143.1	106.7	184.8	146.5	183.3	127.1	201.6
1873	132.5	150.0	144.2	138.8	105.8	183.5	146.5	191.7	128.3	.....
1874	115.1	137.0	140.6	123.3	101.7	186.1	150.3	191.7	110.8	217.7
1875	132.5	148.1	147.1	150.0	100.0	184.8	149.1	191.7	124.7	170.2
1876	132.5	148.1	126.8	150.0	99.2	183.5	149.1	183.3	124.7	161.3
1877	122.2	144.4	126.8	124.1	100.8	.....	.....	183.3	105.4	201.6
1878	122.2	144.4	121.0	124.1	93.3	192.4	136.5	183.3	106.6	222.6
1879	122.2	144.4	126.8	124.1	98.3	192.4	136.5	183.3	106.6	238.7
1880	121.4	132.4	173.9	124.1	103.3	187.3	136.5	183.3	115.1	246.8
1881	121.4	132.4	163.0	115.5	103.3	196.2	144.7	183.3	109.6	295.2
1882	127.0	132.4	163.0	106.0	108.3	200.0	142.1	183.3	111.4	262.9
1883	127.0	132.4	163.0	106.0	116.7	197.5	142.1	183.3	113.3	374.2
1884	129.4	134.3	169.6	106.0	166.7	201.3	142.1	183.3	113.3	225.8
1885	131.0	134.3	126.8	106.0	.....	194.9	144.7	183.3	117.5	274.2
1886	133.3	136.1	147.1	112.1	.....	192.4	142.1	183.3	121.1	252.3
1887	133.3	138.0	136.2	106.0	.....	189.9	151.6	183.3	121.1	225.8
1888	133.3	138.9	161.6	106.0	126.7	193.7	148.4	183.3	120.5	297.1
1889	133.3	138.9	163.0	106.0	145.8	194.9	159.1	183.3	121.1	274.2
1890	133.3	138.9	163.0	106.0	118.3	193.7	152.2	183.3	121.1	309.7
1891	133.3	138.9	168.8	106.0	141.7	193.7	150.9	183.3	121.1	312.9

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

PAPER.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	75. Engineers.	75. Finishers.	75. Laborers.	75. Machine hands.	75. Machine hands helpers.	75. Paper cutters.	75. Rag sorters.
1840							
1841							
1842							
1843							
1844							
1845							
1846							
1847							
1848							
1849							
1850							
1851							
1852							
1853							
1854							
1855							
1856							
1857							
1858							
1859	100.0	100.0	100.0	100.0	83.5	100.0	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1862	100.0	86.8	80.0	100.0	100.0	80.0	80.0
1863	114.6	106.8	100.0	112.4	116.5	100.0	100.0
1864	114.6	106.8	100.0	124.7	116.5	100.0	100.0
1865	142.9	160.0	150.0	168.5	150.0	117.0	117.0
1866	142.9	200.0	150.0	187.3	150.0	130.0	117.0
1867	142.9	200.0	150.0	206.0	150.0	150.0	130.0
1868	157.5	240.0	150.0	206.0	166.5	150.0	130.0
1869	157.5	260.0	150.0	206.0	150.0	150.0	130.0
1870	171.7	240.0	150.0	206.0	150.0	150.0	130.0
1871	171.7	241.2	150.0	224.7	150.0	150.0	130.0
1872	171.7	189.2	150.0	224.7	150.0	200.0	150.0
1873	171.7	284.0	150.0	224.7	150.0	200.0	150.0
1874	171.7	226.4	150.0	224.7	150.0	200.0	150.0
1875	171.7	296.8	150.0	224.7	150.0	200.0	150.0
1876	171.7	403.2	150.0	224.7	150.0	200.0	150.0
1877	150.2	270.4	125.0	187.3	140.0	150.0	150.0
1878	128.8	168.0	125.0	168.5	125.0	150.0	150.0
1879	128.8	260.0	125.0	168.5	125.0	200.0	150.0
1880	128.8	212.4	125.0	168.5	125.0	200.0	160.0
1881	150.2	219.2	135.0	187.3	135.0	200.0	150.0
1882	150.2	234.0	135.0	187.3	135.0	200.0	150.0
1883	150.2	312.4	135.0	187.3	135.0	200.0	150.0
1884	150.2	290.0	135.0	187.3	135.0	200.0	150.0
1885	150.2	294.0	135.0	187.3	135.0	200.0	150.0
1886	150.2	312.8	135.0	187.3	135.0	200.0	150.0
1887	171.7	274.8	135.0	206.0	135.0	200.0	150.0
1888	171.7	240.8	135.0	206.0	150.0	200.0	150.0
1889	171.7	266.4	135.0	206.0	150.0	200.0	150.0
1890	171.7	232.4	135.0	187.3	150.0	200.0	150.0
1891	171.7	233.2	150.0	206.0	165.0	200.0	150.0

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

RAILROADS.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	76. Baggagemen.	76. Brakemen, freight.	76. Brakemen, passenger.	76. Carpenters.	76. Conductors, freight.	76. Conductors, passenger.	76. Engineers, locomotive.	76. Firemen, locomotive.	76. Foremen, masons.	76. Masons.	76. Painters.
1840	80.2	85.8	92.0	94.2	103.1	66.0	93.0	92.6	100.0	87.5	90.1
1841	80.2	85.8	92.0	.....	103.1	66.0	95.0	94.8	100.0	93.8	89.6
1842	80.2	85.8	92.0	.....	101.2	66.0	95.4	94.3	100.0	97.5	100.0
1843	80.2	85.8	92.0	98.1	110.2	66.0	93.7	92.1	100.0	91.8	86.5
1844	80.2	85.8	92.0	.....	102.2	66.0	93.7	93.4	100.0	87.8	88.9
1845	80.2	85.8	92.0	102.3	104.1	66.0	93.5	91.7	100.0	89.5	80.2
1846	80.2	85.8	92.0	102.3	105.9	72.0	95.0	92.1	100.0	90.3	73.7
1847	80.2	85.8	92.0	98.1	104.7	72.0	95.4	92.6	100.0	91.3	100.0
1848	80.2	85.8	92.0	100.4	101.2	72.0	92.4	100.4	100.0	100.0	85.0
1849	80.2	85.8	92.0	.....	104.1	72.0	93.3	100.4	100.0	89.3	88.9
1850	80.2	85.8	92.0	102.3	104.7	72.0	94.8	100.4	100.0	100.0	85.0
1851	80.2	85.8	92.0	93.8	104.7	72.0	92.6	100.4	100.0	100.0	85.0
1852	80.2	85.8	92.0	100.4	99.1	72.0	93.9	100.4	100.0	100.0	66.5
1853	80.2	85.8	92.0	94.6	100.3	77.9	87.0	100.4	100.0	97.3	88.0
1854	80.2	85.8	92.0	103.1	100.6	77.9	108.3	117.0	100.0	100.0	100.0
1855	80.2	85.8	98.4	105.8	101.2	77.9	108.3	117.0	100.0	.....	100.0
1856	80.2	85.8	101.6	113.5	99.1	77.9	108.3	117.0	100.0	100.0	82.9
1857	80.2	85.8	100.0	104.6	99.4	77.9	108.3	117.0	100.0	100.0	91.0
1858	80.2	100.0	100.0	101.9	100.0	90.0	105.7	117.0	100.0	.....	74.9
1859	80.2	100.0	100.0	.....	102.5	100.0	100.0	104.8	100.0	100.0	.....
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	100.0	100.0	.....	108.7	100.0	100.0	113.5	100.0	90.8	119.6
1862	100.0	100.0	100.0	106.9	110.9	100.0	100.0	113.5	100.0	.....	82.3
1863	100.0	100.0	100.0	98.5	110.6	100.0	104.8	117.0	100.0	112.8	89.2
1864	100.0	120.2	100.0	130.8	110.2	100.0	105.9	117.0	100.0	125.0	119.8
1865	109.9	120.2	100.0	170.0	163.0	120.0	125.2	152.8	140.0	140.0	121.6
1866	109.9	145.9	139.6	135.4	171.7	120.0	130.4	152.8	160.0	146.8	150.9
1867	109.9	145.9	153.2	191.2	166.5	120.0	146.8	152.8	180.0	162.5	129.6
1868	109.9	171.7	184.0	166.2	165.5	120.0	144.3	152.8	190.0	165.0	127.2
1869	109.9	171.7	160.0	169.2	164.3	120.0	143.5	152.8	200.0	200.0	137.7
1870	109.9	171.7	160.0	196.9	157.5	120.0	165.4	174.7	200.0	200.0	156.1
1871	109.9	171.7	180.0	186.5	157.1	120.0	166.3	174.7	200.0	190.3	152.4
1872	109.9	171.7	180.0	172.3	152.5	120.0	166.7	174.7	209.0	200.0	157.2
1873	109.9	171.7	180.0	211.5	155.3	120.0	163.5	174.7	200.0	200.0	131.4
1874	109.9	154.9	180.0	168.8	157.1	120.0	163.5	166.4	180.0	166.3	132.9
1875	109.9	171.7	180.0	175.0	165.5	120.0	162.2	174.7	180.0	.....	125.5
1876	109.9	150.2	180.0	.....	160.2	108.0	163.0	157.2	160.0	178.8	106.9
1877	109.9	141.6	144.0	148.5	146.9	108.0	160.2	157.2	160.0	175.0	115.0
1878	109.9	141.6	144.0	123.5	146.0	108.0	148.7	140.6	160.0	162.5	114.4
1879	109.9	141.6	144.0	152.3	142.9	108.0	149.1	174.7	150.0	134.3	109.6
1880	109.9	150.2	160.0	136.2	157.5	108.0	162.8	174.7	160.0	150.0	112.5
1881	109.9	150.2	160.0	152.7	161.2	120.0	164.6	174.7	160.0	162.5	122.2
1882	109.9	150.2	160.0	147.7	159.6	120.0	163.3	174.7	160.0	162.5	98.2
1883	109.9	150.2	160.0	160.4	163.7	120.0	165.4	174.7	160.0	160.0	119.5
1884	109.9	150.2	160.0	155.8	165.8	120.0	163.7	174.7	160.0	149.5	109.5
1885	109.9	150.2	160.0	147.7	165.2	120.0	162.4	173.4	160.0	162.5	194.6
1886	104.4	150.2	160.0	159.6	163.7	120.0	163.0	171.2	160.0	144.5	115.0
1887	104.4	150.2	160.0	146.5	157.5	120.0	164.8	172.1	160.0	154.5	112.0
1888	104.4	150.2	160.0	156.2	161.2	120.2	164.1	172.9	160.0	154.3	137.1
1889	105.2	153.6	160.0	164.6	158.4	120.2	164.8	172.1	164.0	141.3	127.2
1890	105.7	151.5	160.0	161.2	163.0	120.2	163.9	171.6	164.0	131.8	123.7
1891	105.5	151.0	160.0	152.7	159.3	120.2	164.8	172.1	164.0	126.0	124.3

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

SIDEWALKS.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	77. Sidewalk layers.	77. Sidewalk layers' helpers.	77. Stonecutters.	77. Teamsters.
1840	.....	.....	.....	.....
1841	.....	.....	.....	.....
1842	87.5	100.0	.....	75.0
1843	87.5	100.0	.....	75.0
1844	87.5	100.0	.....	75.0
1845	87.5	100.0	.....	75.0
1846	87.5	100.0	.....	75.0
1847	87.5	100.0	.....	75.0
1848	87.5	100.0	.....	75.0
1849	87.5	100.0	.....	75.0
1850	100.0	100.0	100.0	100.0
1851	100.0	100.0	100.0	100.0
1852	100.0	100.0	100.0	100.0
1853	100.0	100.0	100.0	100.0
1854	100.0	100.0	100.0	100.0
1855	100.0	100.0	100.0	100.0
1856	100.0	100.0	100.0	100.0
1857	100.0	100.0	100.0	100.0
1858	100.0	100.0	100.0	100.0
1859	100.0	100.0	100.0	100.0
1860	100.0	100.0	100.0	100.0
1861	100.0	100.0	100.0	100.0
1862	100.0	100.0	100.0	100.0
1863	112.8	125.0	112.5	100.0
1864	137.5	175.0	137.5	100.0
1865	175.0	250.0	175.0	100.0
1866	187.5	275.0	187.5	100.0
1867	.....	.....	.....	.....
1868	.....	.....	.....	.....
1869	212.5	325.0	212.5	100.0
1870	212.5	325.0	212.5	100.0
1871	200.0	300.0	200.0	100.0
1872	200.0	300.0	200.0	100.0
1873	200.0	300.0	200.0	100.0
1874	200.0	225.0	200.0	100.0
1875	175.0	200.0	175.0	100.0
1876	150.0	200.0	150.0	100.0
1877	150.0	200.0	150.0	100.0
1878	150.0	200.0	150.0	100.0
1879	150.0	200.0	150.0	100.0
1880	150.0	200.0	150.0	100.0
1881	150.0	200.0	150.0	100.0
1882	187.5	250.0	187.5	100.0
1883	187.5	250.0	187.5	100.0
1884	187.5	250.0	187.5	100.0
1885	187.5	250.0	187.5	100.0
1886	187.5	250.0	187.5	100.0
1887	187.5	250.0	187.5	100.0
1888	187.5	250.0	187.5	100.0
1889	187.5	250.0	187.5	100.0
1890	187.5	250.0	187.5	100.0
1891	200.0	250.0	200.0	100.0

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

SPICE.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	78. Grinders.	78. Laborers.	78. Packers.	78. Shippers.	78. Teamsters.
1840	.....	.....	.....	.....	.....
1841	.....	.....	.....	.....	.....
1842	.....	.....	.....	.....	.....
1843	.....	.....	.....	.....	.....
1844	.....	.....	.....	.....	.....
1845	.....	.....	.....	.....	.....
1846	.....	.....	.....	.....	.....
1847	.....	.....	.....	.....	.....
1848	.....	.....	.....	.....	.....
1849	.....	.....	.....	.....	.....
1850	.....	.....	.....	.....	.....
1851	.....	.....	.....	.....	.....
1852	.....	.....	.....	.....	.....
1853	.....	.....	.....	.....	.....
1854	.....	.....	.....	.....	.....
1855	.....	.....	.....	.....	.....
1856	.....	.....	.....	.....	.....
1857	.....	.....	.....	.....	.....
1858	.....	.....	.....	.....	.....
1859	.....	.....	.....	.....	.....
1860	.....	100.0	100.0	.....	100.0
1861	100.0	101.4	100.0	100.0	.....
1862	83.5	158.6	100.0	.....	.....
1863	83.5	111.9	100.0	.....	.....
1864	111.0	115.2	100.0	.....	100.0
1865	133.5	152.4	100.0	166.5	122.3
1866	.....	166.7	100.0	200.0	116.7
1867	.....	151.0	100.0	.....	.....
1868	.....	158.6	100.0	.....	.....
1869	.....	144.8	100.0	.....	111.0
1870	.....	161.4	100.0	200.0	114.0
1871	.....	166.7	83.3	.....	116.7
1872	200.0	147.1	83.3	249.5	122.3
1873	191.5	151.9	83.3	208.5	111.0
1874	155.5	145.2	83.3	233.5	100.0
1875	194.5	158.6	83.3	233.5	111.0
1876	194.5	166.7	83.3	250.0	111.0
1877	194.5	149.0	83.3	208.5	111.0
1878	211.0	147.1	83.3	208.5	105.7
1879	183.5	146.7	83.3	208.5	105.7
1880	183.5	132.9	75.0	208.5	100.0
1881	183.5	140.0	75.0	208.5	100.0
1882	158.5	134.8	66.7	208.5	94.3
1883	175.0	127.1	66.7	300.0	107.3
1884	175.0	144.8	66.7	300.0	107.3
1885	166.5	146.7	66.7	300.0	111.0
1886	170.5	131.9	66.7	300.0	111.0
1887	185.5	149.0	66.7	300.0	111.0
1888	185.5	141.9	66.7	300.0	111.0
1889	185.5	143.3	66.7	300.0	116.7
1890	185.5	151.0	66.7	300.0	116.7
1891	185.5	151.9	66.7	300.0	116.7

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

STONE.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	81. Carpenters.	80. Carvers.	81. Engineers.	79. Foremen, quarrymen.	80. Foremen, quarrymen.	83. Granite cutters.	81. Laborers.	84. Laborers.	81. Marble cutters.	82. Marble cutters.
1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	73.5
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....	79.7
1842	.....	.....	.....	.....	.....	.....	.....	.....	.....	73.5
1843	.....	.....	.....	.....	.....	.....	.....	.....	.....	73.5
1844	.....	.....	.....	.....	.....	.....	.....	.....	.....	73.5
1845	.....	.....	.....	.....	.....	.....	.....	.....	.....	76.7
1846	.....	.....	.....	137.1	.....	.....	.....	.....	.....	85.0
1847	.....	.....	.....	.....	.....	.....	.....	.....	.....	85.8
1848	.....	.....	.....	.....	.....	.....	.....	.....	.....	80.1
1849	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1850	.....	.....	.....	107.1	.....	.....	.....	.....	.....	.....
1851	.....	.....	.....	116.1	82.4	.....	.....	.....	.....	104.2
1852	.....	.....	.....	128.2	80.8	.....	.....	.....	.....	110.3
1853	.....	.....	.....	121.8	84.5	.....	.....	.....	.....	110.3
1854	100.0	80.0	100.0	147.5	.....	.....	88.9	.....	88.9	126.0
1855	100.0	100.0	100.0	148.2	81.1	105.6	88.9	.....	88.9	104.2
1856	100.0	100.0	100.0	153.6	78.2	105.6	100.0	.....	97.8	113.0
1857	100.0	100.0	100.0	144.6	100.0	90.4	100.0	.....	100.0	113.0
1858	100.0	100.0	100.0	148.2	97.4	94.4	100.0	.....	100.0	97.3
1859	100.0	100.0	100.0	137.9	101.8	92.7	100.0	.....	100.0	100.5
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	.....	.....	.....	129.6	83.9	88.9	.....	100.0	88.9	76.2
1862	.....	.....	.....	122.5	78.9	83.3	.....	100.0	.....	84.1
1863	121.5	100.0	111.3	140.0	105.3	94.4	111.1	120.0	100.0	95.8
1864	115.3	125.0	144.7	143.6	114.2	133.3	140.9	120.0	129.1	127.9
1865	121.5	130.0	144.7	173.6	132.1	133.3	148.4	120.0	144.4	146.3
1866	121.5	140.0	144.7	182.1	138.2	157.1	158.2	120.0	144.4	144.9
1867	121.5	150.0	144.7	213.2	147.9	181.3	152.0	120.0	154.2	170.1
1868	121.5	150.0	144.7	215.4	157.4	189.8	152.0	120.0	155.6	169.9
1869	121.5	160.0	144.7	242.5	174.7	203.1	156.0	120.0	155.6	176.2
1870	121.5	160.0	144.7	233.9	172.9	186.7	156.0	120.0	155.6	152.2
1871	121.5	160.0	144.7	243.9	168.7	192.0	156.0	120.0	155.6	157.6
1872	121.5	160.0	144.7	253.2	180.8	186.7	158.2	140.0	155.6	155.1
1873	121.5	160.0	144.7	248.9	187.4	177.8	158.2	140.0	153.6	162.0
1874	121.5	160.0	144.7	221.4	168.4	183.3	158.2	140.0	153.6	155.1
1875	121.5	160.0	144.7	209.6	153.2	177.8	152.0	140.0	152.4	149.8
1876	121.5	160.0	144.7	199.6	136.8	177.8	152.0	140.0	149.1	143.6
1877	109.1	130.0	144.7	191.1	139.5	116.7	143.1	120.0	124.3	138.0
1878	90.9	130.0	144.7	191.4	139.5	131.1	143.1	144.0	120.9	122.1
1879	90.9	130.0	144.7	189.3	139.5	166.7	131.1	140.0	120.9	118.4
1880	90.9	110.0	144.7	195.7	139.5	111.1	131.1	140.0	111.1	119.6
1881	121.5	115.0	133.3	206.4	115.0	172.2	125.3	140.0	111.1	129.7
1882	121.5	140.0	133.3	227.5	149.2	153.3	132.0	140.0	118.2	135.0
1883	121.5	140.0	133.3	226.4	138.9	137.8	132.0	140.0	118.2	131.9
1884	145.5	140.0	133.3	215.4	145.5	151.8	136.0	140.0	119.6	140.2
1885	145.5	145.0	133.3	207.9	150.0	152.4	136.0	140.0	120.4	141.4
1886	145.5	160.0	133.3	221.1	147.9	154.7	135.6	140.0	119.1	148.0
1887	145.5	160.0	133.3	202.9	166.6	151.8	133.8	140.0	122.2	145.8
1888	145.5	160.0	133.3	227.5	166.3	155.6	138.2	140.0	128.2	147.1
1889	145.5	160.0	133.3	183.9	166.3	175.3	138.2	140.0	127.8	145.1
1890	145.5	160.0	133.3	213.6	148.2	177.8	138.2	140.0	127.1	171.6
1891	145.5	160.0	133.3	231.4	157.6	177.8	136.4	160.0	128.4	172.3

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

STONE—Concluded.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	81. Marble polishers.	82. Marble polishers.	81. Marble rubbers.	82. Marble rubbers.	79. Quarrymen.	80. Quarrymen.	84. Stone cutters.	81. Teamsters.	81. Watchmen.
1840	.....	.....	.....	87.3	.....	.....	.....	.....	.....
1841	.....	95.1	.....	87.3	.....	.....	.....	.....	.....
1842	.....	.....	.....	87.3	76.7	.....	.....	.....	.....
1843	.....	.....	.....	87.3	54.7	.....	.....	.....	.....
1844	.....	.....	.....	87.3	68.6	.....	.....	.....	.....
1845	.....	.....	.....	87.3	76.7	.....	.....	.....	.....
1846	.....	.....	.....	87.3	81.8	.....	.....	.....	.....
1847	.....	.....	.....	87.3	84.7	.....	.....	.....	.....
1848	.....	.....	.....	87.3	81.4	.....	.....	.....	.....
1849	.....	.....	.....	.....	79.2	.....	.....	.....	.....
1850	.....	.....	.....	.....	80.1	.....	.....	.....	.....
1851	.....	.....	.....	101.7	86.4	71.7	.....	.....	.....
1852	.....	.....	.....	94.8	83.1	79.1	.....	.....	.....
1853	.....	.....	.....	109.2	85.6	86.5	.....	.....	.....
1854	94.8	114.1	95.9	124.5	108.1	98.4	.....	88.9	100.0
1855	94.8	95.1	95.9	102.2	94.5	91.8	.....	88.9	100.0
1856	96.5	114.1	100.9	101.3	102.1	89.3	.....	100.0	100.0
1857	100.0	114.1	99.1	100.9	94.9	99.6	.....	100.0	100.0
1858	100.0	104.6	97.7	99.6	97.9	94.7	.....	100.0	100.0
1859	99.6	85.6	99.5	99.6	100.0	97.5	.....	100.0	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	87.0	79.1	99.1	89.1	96.6	80.3	100.0	.....	71.5
1862	.....	82.5	91.3	88.6	90.7	86.9	100.0	88.9	.....
1863	108.7	105.7	114.2	113.5	114.4	111.1	114.3	100.0	100.0
1864	140.4	155.9	149.3	161.6	135.2	129.5	153.4	133.3	125.0
1865	148.7	166.2	151.1	182.1	155.1	144.3	174.3	148.4	125.0
1866	154.8	153.2	148.9	201.7	157.6	156.1	185.7	163.1	125.0
1867	152.6	162.4	152.5	207.4	157.2	162.3	188.9	163.1	125.0
1868	152.6	170.7	151.1	224.0	164.8	184.8	214.3	148.4	125.0
1869	151.3	180.6	152.5	258.5	212.3	204.5	146.0	140.9	125.0
1870	152.6	159.3	152.5	240.2	208.9	202.9	198.0	148.4	143.0
1871	151.7	171.5	152.5	240.2	207.2	195.1	198.6	148.4	143.0
1872	150.0	167.3	152.5	247.6	207.2	201.2	214.9	148.4	143.0
1873	148.3	166.2	152.5	226.6	212.7	187.3	214.9	148.4	143.0
1874	150.9	163.5	152.5	229.3	183.9	173.4	215.4	148.4	143.0
1875	150.9	168.8	152.5	224.5	161.0	144.3	214.9	143.6	143.0
1876	141.3	152.1	152.5	202.2	139.4	126.2	196.9	143.6	143.0
1877	137.8	132.3	137.0	174.7	131.8	118.4	189.4	133.3	128.5
1878	135.2	123.6	136.5	163.8	130.5	122.5	178.6	133.3	128.5
1879	113.5	119.4	114.2	159.4	125.0	120.1	120.3	111.1	107.0
1880	113.9	133.1	114.2	167.2	134.3	127.0	144.0	111.1	107.0
1881	122.6	150.6	125.6	183.4	138.1	139.3	157.4	122.2	118.0
1882	133.9	168.8	137.0	198.7	154.7	147.5	187.4	133.3	128.5
1883	133.9	168.4	137.0	192.1	155.9	145.5	186.9	133.3	128.5
1884	137.8	169.6	137.0	195.6	149.6	147.5	186.6	133.3	128.5
1885	130.9	171.1	137.0	207.4	141.9	148.0	187.1	133.3	128.5
1886	130.9	170.3	137.0	202.6	165.3	151.2	172.9	133.3	128.5
1887	134.3	190.1	137.0	200.0	155.5	155.7	173.4	133.3	128.5
1888	135.2	190.1	137.0	207.4	159.7	159.4	186.3	133.3	128.5
1889	135.2	190.1	137.0	235.8	158.5	159.0	189.1	133.3	128.5
1890	134.3	209.1	137.0	262.0	172.0	157.0	187.4	133.3	128.5
1891	134.3	209.1	137.0	262.0	170.3	160.2	201.1	133.3	128.5

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

WHITE LEAD.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	85. Engineers.	85. Laborers.	85. Laborers, boys.	85. Watchmen.
1840	.....	89.3	92.1	.....
1841	.....	.....	.....	.....
1842	66.7	89.3	65.4	.....
1843	66.7	89.3	65.4	.....
1844	66.7	89.3	65.4	.....
1845	94.3	89.3	85.0	.....
1846	94.3	89.3	.....	.....
1847	.....	89.3	.....	.....
1848	.....	89.3	.....	.....
1849	66.7	89.3	92.1	87.3
1850	77.7	89.3	87.4	100.0
1851	89.0	89.3	102.4	93.9
1852	89.0	89.3	104.7	93.9
1853	91.7	89.3	100.8	93.9
1854	89.0	89.3	131.5	93.9
1855	100.0	103.1	87.4	87.3
1856	100.0	103.1	100.0	87.3
1857	100.0	100.9	92.1	93.4
1858	100.0	100.9	100.8	93.4
1859	100.0	100.0	99.2	93.9
1860	100.0	100.0	100.0	100.0
1861	100.0	100.9	104.7	100.0
1862	111.0	103.6	104.7	100.0
1863	111.0	111.6	92.1	124.9
1864	133.3	110.3	118.1	.....
1865	116.7	156.3	98.4	149.8
1866	116.7	156.3	104.7	149.8
1867	116.7	156.3	118.1	149.8
1868	116.7	156.3	104.7	162.0
1869	133.3	178.6	131.5	174.7
1870	133.3	89.3	78.7	174.7
1871	133.3	100.4	.....	174.7
1872	133.3	.....	78.7	174.7
1873	133.3	133.9	118.1	174.7
1874	116.7	156.3	131.5	174.7
1875	116.7	156.3	131.5	174.7
1876	116.7	122.8	131.5	174.7
1877	116.7	133.9	131.5	149.8
1878	111.0	112.5	78.7	149.8
1879	111.0	110.3	104.7	149.8
1880	116.7	102.7	125.2	124.9
1881	116.7	107.6	104.7	149.8
1882	116.7	112.9	118.1	149.8
1883	116.7	114.3	.....	174.7
1884	116.7	114.3	78.7	174.7
1885	133.3	117.0	92.1	174.7
1886	133.3	115.6	118.1	174.7
1887	133.3	115.2	.....	174.7
1888	133.3	113.8	.....	174.7
1889	133.3	112.9	.....	174.7
1890	133.3	114.3	.....	174.7
1891	133.3	113.8	.....	174.7

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

WOOLLEN GOODS.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	85. Alley boys.	85. Burlers.	86. Card cleaners.	85. Card feeders.	86. Card tenders.	87. Card tenders.	87. Carders	86. Carpenters.	85. Cleaners.	86. Drawers-in.
1840										
1841										
1842										
1843										
1844										
1845										
1846										
1847										
1848										
1849										
1850	106.3	92.6		100.0					110.8	
1851	106.3	92.6		100.0					110.8	
1852	106.3	92.6		100.0					110.8	
1853	106.3	92.6		100.0					110.8	
1854	106.3	92.6		100.0					106.0	
1855	106.3	92.6		100.0					106.0	
1856	100.0	92.6		100.0					106.0	
1857	100.0	92.6		100.0					106.0	
1858	100.0	100.0		100.0					106.0	
1859	100.0	100.0	89.9	100.0	93.3	83.5	89.3	133.3	100.0	93.5
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	100.0	111.6	100.0	106.7	129.1	107.5		90.4	
1862	100.0	100.0	137.7	100.0	105.8	131.6	102.5		90.4	119.4
1863	79.4	100.0	102.9	86.2	107.5	138.0	108.8	108.0	90.4	119.4
1864	92.1	100.0	109.4	122.4	112.5	141.8	122.0		100.0	
1865	100.0	107.4	154.3	143.1	142.5	154.4	115.7	108.0	85.5	201.6
1866	100.0	124.1	138.4	151.7	122.5	173.4	148.4	150.0	88.0	221.8
1867	112.7	131.5	123.2	137.9	130.0	164.6	140.3		80.1	
1868	112.7	131.5	142.0	137.9	120.8	168.4	149.1		80.1	201.6
1869	112.7	148.1	148.6	137.9	120.0	174.7	146.5		80.1	201.6
1870	119.0	150.9	156.5	143.1	105.0	182.3	150.3	183.3	121.1	201.6
1871	116.7	150.9	150.0	136.2	114.2	170.9	144.7	183.3	121.1	201.6
1872	131.7	149.1	161.6	143.1	106.7	184.8	146.5	183.3	127.1	201.6
1873	132.5	150.0	144.2	138.8	105.8	183.5	146.5	191.7	128.3	
1874	115.1	137.0	140.6	123.3	101.7	186.1	150.3	191.7	110.8	217.7
1875	132.5	148.1	147.1	150.0	100.0	184.8	149.1	191.7	124.7	170.2
1876	132.5	148.1	126.8	150.0	99.2	183.5	149.1	183.3	124.7	161.3
1877	122.2	144.4	126.8	124.1	100.8			183.3	105.4	201.6
1878	122.2	144.4	121.0	124.1	93.3	192.4	136.5	183.3	106.6	222.6
1879	122.2	144.4	126.8	124.1	98.3	192.4	136.5	183.3	106.6	238.7
1880	121.4	132.4	173.9	124.1	103.3	187.3	136.5	183.3	115.1	246.8
1881	121.4	132.4	163.0	115.5	103.3	196.2	144.7	183.3	109.6	226.2
1882	127.0	132.4	163.0	106.0	108.3	200.0	142.1	183.3	111.4	202.9
1883	127.0	132.4	163.0	106.0	116.7	197.5	142.1	183.3	113.3	274.2
1884	129.4	134.3	169.6	106.0	166.7	201.3	142.1	183.3	113.3	325.4
1885	131.0	134.3	126.8	106.0		194.9	144.7	183.3	117.5	274.2
1886	133.3	136.1	147.1	112.1		192.4	142.1	183.3	121.1	242.3
1887	133.3	138.0	136.2	106.0		189.9	151.6	183.3	121.1	225.8
1888	133.3	138.9	161.6	106.0	126.7	193.7	148.4	183.3	120.5	297.1
1889	133.3	138.9	163.0	106.0	145.8	194.9	159.1	183.3	121.1	274.2
1890	133.3	138.9	163.0	106.0	118.3	193.7	152.2	183.3	121.1	309.7
1891	133.3	138.9	168.8	106.0	141.7	193.7	150.9	183.3	121.1	312.9

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

WOOLLEN GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	88. Dressers.	87. Dye-house hands.	88. Dyers.	88. Filling carriers.	88. Filling sorters.	88. Finishers.	88. Fullers.	86. Fullers and giggers.	88. Giggers.	86. Handers-in.
1840										
1841										
1842										
1843										
1844										
1845										
1846										
1847										
1848										
1849										
1850	108.0		90.9	89.3	82.6	100.0	85.5		105.1	
1851	108.0		90.9	89.3	82.6	100.0	85.5		105.1	
1852	108.0		90.9	89.3	82.6	100.0	85.5		105.1	
1853	108.0		90.9	89.3	82.6	100.0	85.5		105.1	
1854	108.0		90.9	89.3	82.6	94.9	95.7		105.1	
1855	100.0		90.9	89.3	82.6	94.9	95.7		100.0	
1856	100.0		95.5	100.0	82.6	100.0	100.0		100.0	
1857	100.0		98.2	100.0	82.6	100.0	100.0		105.1	
1858	100.0		98.2	100.0	92.6	100.0	100.0		100.0	
1859	100.0	96.9	98.2	100.0	92.6	100.0	100.0	131.5	100.0	
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	92.0	100.8	109.1	100.0	100.0	100.0	100.0	107.1	100.0	
1862	92.0	97.7	113.6	111.6	103.3	100.0	100.0	94.0	94.9	60.0
1863	92.0	119.2	109.1	111.6	109.9	94.9	103.4	106.5	105.1	60.0
1864	92.0	119.2	113.6	111.6	109.9	116.5	106.8	86.9	126.6	
1865	100.0	154.6	113.6	118.8	109.9	126.6	106.8	168.5	126.6	96.0
1866	125.0	194.6	113.6	126.8	114.0	126.6	113.7	154.2	141.8	90.0
1867	150.0	166.9	122.7	126.8	117.4	136.7	113.7	158.3	148.1	
1868	150.0	153.1	131.8	118.8	109.9	136.7	113.7	148.2	148.1	80.0
1869	150.0	168.5	131.8	100.0	115.7	126.6	113.7	147.0	158.2	80.0
1870	175.0	173.1	120.9	95.1	124.0	126.6	128.2	145.8	158.2	80.0
1871	175.0	173.1	136.4	99.1	124.0	126.6	128.2	141.7	158.2	80.0
1872	175.0	134.6	136.4	99.1	124.0	122.8	128.2	147.0	158.2	80.0
1873	175.0	177.7	136.4	104.0	144.6	131.6	128.2	147.6	158.2	80.0
1874	150.0	178.5	115.5	88.4	140.5	112.0	108.5	151.8	135.4	80.0
1875	167.0	176.2	136.4	104.0	165.3	131.6	128.2	147.6	158.2	80.0
1876	167.0	175.4	136.4	104.0	165.3	122.2	128.2	134.5	158.2	80.0
1877	175.0		101.8	99.1	129.8	113.3	128.2	137.5	126.6	80.0
1878	175.0	151.5	120.9	99.1	129.8	131.0	128.2	138.7	126.6	80.0
1879	175.0	153.8	120.9	104.0	129.8	131.0	128.2	138.1	126.6	80.0
1880	150.0	153.8	116.4	133.9	113.2	124.1	128.2	133.9	131.0	80.0
1881	150.0	164.6	116.4	133.9	113.2	124.1	128.2	138.7	131.0	84.0
1882	150.0	164.6	116.4	133.9	113.2	124.1	128.2	137.5	131.0	84.0
1883	150.0	184.6	116.4	133.9	113.2	124.1	128.2	139.3	131.0	84.0
1884	150.0	184.6	116.4	133.9	113.2	124.1	149.6	145.2	148.7	80.0
1885	167.0	184.6	136.4	133.9	120.2	124.1	128.2	142.9	145.6	84.0
1886	167.0	185.4	136.4	133.9	124.0	126.6	128.2	139.3	148.7	84.0
1887	167.0	185.4	136.4	147.3	124.0	126.6	128.2	142.9	145.6	84.0
1888	167.0	186.2	136.4	149.1	124.0	126.6	128.2	139.9	145.6	100.0
1889	167.0	186.2	136.4	149.1	124.0	126.6	128.2	139.3	145.6	100.0
1890	167.0	182.3	136.4	149.1	124.0	126.6	128.2	138.1	145.6	100.0
1891	167.0	179.3	136.4	148.2	124.0	126.6	128.2	138.1	145.6	100.0

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

WOOLLEN GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	88. Handers-in.	88. Laborers, dye-house.	86. Loom fixers.	87. Loom fixers.	86. Overseers, carding department.	87. Overseers, carding department.	88. Overseers, carding department.	86. Overseers, dye-house.	87. Overseers, dye-house.
1840									
1841									
1842									
1843									
1844									
1845									
1846									
1847									
1848									
1849									
1850	91.3	65.6					100.0		
1851	91.3	65.6					100.0		
1852	91.3	65.6					100.0		
1853	91.3	69.8					97.1		
1854	91.3	69.8					100.0		
1855	100.0	69.8					100.0		
1856	100.0	74.0					100.0		
1857	100.0	74.0					100.0		
1858	100.0	82.3					100.0		
1859	100.0	100.0		100.0	66.5	100.0	100.0	111.1	75.0
1860	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	100.0	100.0	100.0	125.0	115.0	100.0	100.0	75.0
1862	100.0	100.0	93.2	140.0	87.5		100.0	83.3	112.5
1863	108.7	100.0	113.2	122.4	150.0	115.0	142.9	83.3	118.8
1864	108.7	95.8	176.0	126.8	150.0		157.1	125.0	137.5
1865	108.7	104.2	160.0	164.0	180.0	137.5	200.0	166.7	150.0
1866	108.7	104.2	150.0	191.6	190.0	150.0	200.0	166.7	175.0
1867	108.7	104.2	153.2	190.0	175.0	150.0	228.6	166.7	175.0
1868	108.7	104.2	146.8	152.4	157.5	150.0	228.6	180.6	150.0
1869	108.7	104.2	140.0	147.6	162.5	150.0	228.6	208.3	150.0
1870	108.7	96.4	145.2	146.4	175.0	150.0	257.1	208.3	150.0
1871	108.7	86.5	139.2	162.4	175.0	150.0	200.0	222.2	175.0
1872	108.7	86.5	137.6	164.4	200.0	200.0	200.0	222.2	150.0
1873	108.7	86.5	144.0	160.8	200.0	200.0	228.6	222.2	150.0
1874	108.7	86.5	162.4	162.0	162.5	200.0	194.3	111.1	150.0
1875	108.7	95.8	164.0	164.4	175.0	200.0	200.0	138.9	150.0
1876	108.7	95.8	160.0	154.8	162.5	200.0	180.0	138.9	150.0
1877	108.7	95.8	164.0		175.0		180.0	152.8	
1878	108.7	95.8	170.0	140.0	175.0	175.0	180.0	166.7	112.5
1879	108.7	95.8	160.0	140.0	162.5	175.0	180.0	166.7	112.5
1880	125.0	114.6	156.0	140.0	150.0	175.0	228.6	166.7	112.5
1881	127.2	114.6	160.0	153.6	162.5	175.0	228.6	180.6	125.0
1882	127.2	114.6	173.6	153.6	162.5	175.0	228.6	194.4	137.5
1883	127.2	114.6	173.6	152.4	162.5	175.0	285.7	208.3	137.5
1884	127.2	114.6	176.0	154.4	162.5	175.0	285.7	236.1	137.5
1885	130.4	114.6	176.0	153.2	162.5	175.0	285.7	236.1	137.5
1886	130.4	114.6	176.0	154.4	162.5	175.0	257.1	236.1	137.5
1887	130.4	114.6	140.8	157.6	162.5	212.5	285.7	236.1	175.0
1888	130.4	114.6	156.8	166.8	162.5	212.5	257.1	236.1	125.0
1889	130.4	114.6	166.4	160.0	200.0	175.0	285.7	236.1	112.5
1890	130.4	114.6	173.2	140.4	200.0	212.5	285.7	250.0	150.0
1891	130.4	114.6	171.6	163.6	200.0	212.5	285.7	236.1	150.0

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

WOOLLEN GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	85. Overseers, dye-house.	86. Overseers, finishing department.	88. Overseers, finishing department.	86. Overseers, fulling and gigging department.	88. Overseers, spinning department.	86. Overseers, weaving department.	87. Overseers, weaving department.	88. Overseers, weaving department.	88. Pickers.
1840	.....	.....	.....	.....	.....	.....	.....	.....	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	.....	.....	.....	.....	.....	.....	.....	.....
1843	.....	.....	.....	.....	.....	.....	.....	.....	.....
1844	.....	.....	.....	.....	.....	.....	.....	.....	.....
1845	.....	.....	.....	.....	.....	.....	.....	.....	.....
1846	.....	.....	.....	.....	.....	.....	.....	.....	.....
1847	.....	.....	.....	.....	.....	.....	.....	.....	.....
1848	.....	.....	.....	.....	.....	.....	.....	.....	.....
1849	.....	.....	.....	.....	.....	.....	.....	.....	.....
1850	100.0	.....	100.0	.....	81.2	.....	.....	94.0	82.6
1851	100.0	.....	100.0	.....	81.2	.....	.....	94.0	82.6
1852	100.0	.....	100.0	.....	81.2	.....	.....	94.0	82.6
1853	100.0	.....	100.0	.....	84.2	.....	.....	94.0	89.3
1854	100.0	.....	100.0	.....	84.2	.....	.....	94.0	89.3
1855	100.0	.....	100.0	.....	91.0	.....	.....	94.0	97.5
1856	100.0	.....	100.0	.....	91.0	.....	.....	100.0	97.5
1857	100.0	.....	100.0	.....	91.0	.....	.....	100.0	97.5
1858	100.0	.....	100.0	.....	94.0	.....	.....	100.0	100.0
1859	100.0	90.9	100.0	90.9	100.0	88.7	114.3	100.0	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	104.8	100.0	100.0	109.1	109.8	100.0	100.0	106.8	100.0
1862	104.8	100.0	100.0	109.1	112.8	116.7	114.3	106.8	100.0
1863	119.8	218.2	100.0	109.1	125.6	116.7	114.3	112.8	109.9
1864	119.8	218.2	111.3	83.6	150.4	133.3	.....	125.6	117.4
1865	119.8	261.8	111.3	145.5	150.4	176.7	171.4	137.6	124.0
1866	119.8	261.8	111.3	120.0	150.4	200.0	228.6	150.4	124.0
1867	134.7	261.8	133.3	120.0	200.8	200.0	228.6	150.4	124.0
1868	134.7	236.4	133.3	.....	150.4	183.3	171.4	150.4	124.0
1869	149.7	236.4	133.3	.....	169.2	200.0	171.4	150.4	111.6
1870	149.7	181.8	150.0	200.0	206.8	200.0	200.0	169.2	103.3
1871	179.6	181.8	183.3	200.0	206.8	200.0	171.4	169.2	103.3
1872	149.7	181.8	216.7	200.0	206.8	200.0	200.0	176.7	103.3
1873	149.7	200.0	216.7	200.0	206.8	200.0	200.0	176.7	103.3
1874	149.7	200.0	183.3	200.0	175.9	200.0	200.0	176.7	87.6
1875	149.7	163.6	216.7	200.0	188.0	200.0	200.0	188.0	103.3
1876	149.7	163.6	216.7	163.6	206.8	200.0	228.6	206.8	103.3
1877	149.7	163.6	180.0	163.6	169.2	200.0	.....	225.6	82.6
1878	149.7	163.6	166.7	181.8	169.2	200.0	171.4	188.0	82.6
1879	149.7	218.2	166.7	181.8	169.2	200.0	185.7	184.2	82.6
1880	224.6	218.2	150.0	181.8	206.8	200.0	185.7	178.2	92.1
1881	224.6	218.2	133.3	181.8	206.8	200.0	200.0	178.2	92.1
1882	224.6	254.5	141.3	181.8	206.8	200.0	200.0	225.6	92.1
1883	239.5	254.5	166.7	181.8	244.4	200.0	200.0	244.4	92.1
1884	269.5	290.9	266.7	181.8	244.4	200.0	171.4	225.6	95.9
1885	299.4	290.9	166.7	181.8	244.4	200.0	171.4	244.4	95.9
1886	299.4	290.9	200.0	181.8	244.4	200.0	171.4	244.4	95.9
1887	299.4	290.9	250.0	181.8	244.4	200.0	171.4	244.4	95.9
1888	299.4	254.5	250.0	181.8	244.4	200.0	171.4	244.4	95.9
1889	299.4	254.5	250.0	181.8	225.6	200.0	.....	244.4	95.9
1890	299.4	254.5	250.0	181.8	225.6	200.0	171.4	244.4	95.9
1891	299.4	254.5	250.0	181.8	225.6	200.0	171.4	244.4	95.9

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Continued.

WOOLLEN GOODS—Continued.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Years.	88. Pressmen.	88. Scourers.	86. Second hands.	88. Second hands.	88. Section hands.	86. Shearers.	88. Shearers.	86. Sorters.	86. Speckers.	88. Spinners, jack.	86. Spinners, jack and mule.
1840	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1843	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1844	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1845	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1846	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1847	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1848	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1849	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1850	100.0	100.0	.....	92.1	100.0	.....	100.0	.....	.....	96.8	.....
1851	100.0	100.0	.....	92.1	100.0	.....	100.0	.....	.....	96.8	.....
1852	100.0	100.0	.....	92.1	100.0	.....	100.0	.....	.....	96.8	.....
1853	100.0	100.0	.....	93.9	100.0	.....	100.0	.....	.....	100.0	.....
1854	100.0	100.0	.....	93.9	100.0	.....	100.0	.....	.....	100.0	.....
1855	100.0	100.0	.....	93.9	100.0	.....	100.0	.....	.....	100.0	.....
1856	100.0	100.0	.....	95.2	100.0	.....	100.0	.....	.....	100.0	.....
1857	100.0	100.0	.....	98.7	100.0	.....	100.0	.....	.....	100.0	.....
1858	100.0	100.0	.....	100.0	100.0	.....	100.0	.....	.....	100.0	.....
1859	100.0	100.0	93.3	100.0	100.0	100.0	100.0	133.3	.....	100.0	80.0
1860	100.0	100.0	100.0	100.0	100.0	.....	100.0	100.0	100.0	100.0	100.0
1861	100.0	106.0	97.8	101.7	100.0	114.5	100.0	100.0	.....	100.0	100.0
1862	100.0	106.0	105.6	103.9	100.0	114.5	100.0	100.0	100.0	100.0	95.2
1863	100.0	106.0	119.4	118.8	112.5	122.9	100.0	120.0	108.0	105.3	123.8
1864	104.0	110.8	106.7	132.3	100.0	152.7	104.0	150.0	.....	125.3	128.6
1865	108.0	110.8	144.4	132.3	125.0	213.7	108.0	156.7	140.0	123.2	160.0
1866	117.0	110.8	150.0	132.3	183.0	209.9	117.0	166.7	126.0	126.3	171.4
1867	117.0	115.7	188.9	134.9	150.0	213.7	117.0	166.7	184.0	137.9	183.8
1868	117.0	120.5	152.8	127.9	150.0	183.2	117.0	140.3	250.0	133.7	130.5
1869	125.0	132.5	166.7	119.2	175.0	196.9	125.0	129.7	250.0	136.8	175.3
1870	125.0	150.6	180.6	118.8	191.5	204.6	125.0	145.7	270.0	141.1	163.4
1871	125.0	150.6	180.6	126.2	200.0	200.8	125.0	145.7	270.0	140.0	177.1
1872	125.0	150.6	186.1	133.2	200.0	204.6	125.0	145.7	270.0	138.9	176.2
1873	125.0	150.6	186.1	155.0	204.0	229.0	125.0	143.3	200.0	135.8	150.0
1874	107.0	134.9	186.1	135.4	173.5	209.9	107.0	145.7	.....	138.9	137.1
1875	125.0	134.9	180.6	138.4	204.0	189.3	125.0	148.7	.....	140.0	142.9
1876	125.0	134.9	147.2	138.4	204.0	193.1	125.0	143.0	.....	134.7	151.4
1877	100.0	134.9	138.9	125.8	200.0	196.9	100.0	130.7	.....	136.8	137.1
1878	100.0	134.9	147.2	125.8	200.0	190.1	100.0	135.7	.....	135.8	144.8
1879	100.0	134.9	138.9	122.7	200.0	190.1	100.0	127.3	.....	130.5	131.0
1880	110.0	135.5	144.4	129.7	200.0	190.8	110.0	142.0	176.0	130.5	142.9
1881	120.0	136.7	166.7	129.7	196.0	198.5	110.0	.....	178.0	132.6	142.9
1882	120.0	136.7	180.6	133.6	196.0	206.1	110.0	141.0	164.0	129.5	142.9
1883	120.0	135.5	192.8	150.7	200.0	206.1	111.5	183.3	174.0	129.5	.....
1884	125.0	135.5	192.8	171.6	200.0	206.1	111.5	153.3	180.0	134.7	115.7
1885	125.0	144.6	186.1	131.0	200.0	206.1	111.5	117.7	164.0	131.6	119.0
1886	125.0	141.6	186.1	141.9	200.0	206.1	111.5	183.3	164.0	131.6	119.0
1887	125.0	141.6	192.8	141.9	200.0	206.1	111.5	183.3	164.0	131.6	119.0
1888	125.0	141.6	192.8	141.9	200.0	206.1	111.5	148.3	164.0	133.7	119.0
1889	125.0	141.6	166.7	141.9	200.0	206.1	111.5	183.3	164.0	132.6	106.7
1890	125.0	141.6	173.9	149.3	200.0	206.1	111.5	137.7	164.0	133.7	164.8
1891	125.0	141.6	194.4	149.3	200.0	206.1	111.5	135.0	164.0	132.6	134.8

TABLE 37.—*Rates of wages for 52 years—Relative wages*—Concluded.

WOOLLEN GOODS—Concluded.

[The figures in the heading indicate the establishment number as tabulated in Table XII.]

Year.	86. Spoolers.	88. Twisters.	88. Washers.	88. Waste sorters.	86. Watchmen.	88. Watchmen.	86. Weavers.	88. Weavers.	86. Yarn carriers
1840	.....	.....	.....	.....	.....	.....	.....	.....	.....
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....
1842	.....	.....	.....	.....	.....	.....	.....	.....	.....
1843	.....	.....	.....	.....	.....	.....	.....	.....	.....
1844	.....	.....	.....	.....	.....	.....	.....	.....	.....
1845	.....	.....	.....	.....	.....	.....	.....	.....	.....
1846	.....	.....	.....	.....	.....	.....	.....	.....	.....
1847	.....	.....	.....	.....	.....	.....	.....	.....	.....
1848	.....	.....	.....	.....	.....	.....	.....	.....	.....
1849	.....	.....	.....	.....	.....	.....	.....	.....	.....
1850	.....	100.0	90.2	85.9	.....	.....	.....	75.3	.....
1851	.....	100.0	90.2	85.9	.....	.....	.....	77.2	.....
1852	.....	100.0	90 2	85.9	.....	.....	.....	85.2	.....
1853	.....	100.0	90.2	85.9	.....	.....	.....	86.4	.....
1854	.....	100.0	95.7	85.9	.....	.....	.....	84.0	.....
1855	.....	100.0	95.7	85.9	.....	.....	.....	80.2	.....
1856	.....	100.0	95.7	90.2	.....	.....	.....	89.5	.....
1857	.....	100.0	95.7	90.2	.....	.....	.....	93.2	.....
1858	.....	100.0	100.0	90.2	.....	.....	.....	92.0	.....
1859	70.8	100.0	100.0	90.2	.....	.....	53.3	97.5	89.9
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	113.8	100.0	100.0	100.0	100.0	100.0	127.2	104.3	.....
1862	101.5	100.0	108.7	100.0	100.0	100.0	123.3	108.0	.....
1863	127.7	100.0	101.1	108.7	100.0	100.0	149.4	113.0	.....
1864	101.5	106.0	127.2	108.7	125.0	100.0	134.4	117.3	.....
1865	81.5	123.9	131.5	121.7	150.0	104.8	175.6	125.9	133.3
1866	116.9	137.3	135.9	135.9	175.0	114.3	160.0	134.6	181.2
1867	140.0	137.3	144.6	135.9	175.0	128.6	147.2	144.4	.....
1868	138.5	137.3	135.9	135.9	150.0	128.6	131.1	142.0	144.9
1869	138.5	137.3	135.9	135.9	150.0	128.6	161.1	143.2	202.9
1870	129.2	149.3	135.9	135.9	150.0	133.3	139.4	151.2	181.2
1871	129.2	149.3	135.9	135.9	150.0	133.3	136.7	154.3	181.2
1872	116.9	149.3	135.9	135.9	150.0	128.6	133.9	158.6	144.9
1873	143.1	149.3	135.9	144.6	150.0	138.1	135.0	153.7	202.9
1874	101.5	120.9	116.3	122.8	175.0	138.1	149.4	159.3	231.9
1875	138.5	149.3	135.9	144.6	175.0	138.1	151.1	158.6	199.3
1876	107.7	149.3	135.9	144.6	165.0	133.3	142.8	158.6	199.3
1877	120.0	134.3	108.7	135.9	165.0	138.1	132.8	160.5	199.3
1878	98.5	130.6	108.7	135.9	147.5	138.1	144.4	164.2	199.3
1879	100.0	130.6	108.7	135.9	147.5	138.1	133.9	161.7	231.9
1880	96.9	123.1	122.3	135.9	150.0	138.1	136.1	158.0	253.6
1881	120.0	121.6	122.3	135.9	150.0	138.1	143.3	159.9	253.6
1882	127.7	121.6	122.3	135.9	150.0	142.9	143.3	158.6	253.6
1883	123.1	122.4	122.3	135.9	150.0	142.9	177.8	157.4	268.1
1884	130.8	122.4	126.1	148.9	150.0	142.9	163.9	160.5	268.1
1885	124.6	123.9	126.6	148.9	150.0	152.4	158.3	159.9	268.1
1886	129.2	126.9	126.6	148.9	150.0	152.4	162.8	160.5	268.1
1887	147.7	132.1	126.6	148.9	157.5	152.4	192.8	159.9	268.1
1888	160.0	132.1	126.6	148.9	137.5	152.4	169.4	161.7	224.6
1889	120.0	132.1	126.6	148.9	135.5	152.4	170.0	164.8	224.6
1890	120.0	132.1	126.6	148.9	143.5	152.4	187.8	161.1	268.1
1891	115.4	132.1	126.1	148.9	135.5	152.4	176.1	165.4	268.1

The preceding table shows the entire movement of wages in currency. Each industry is represented by several quotations, covering the various occupations. It will be noticed that some occupations figure with a number of quotations. In a rough way it is evident that the number of quotations increases with the importance of the occupation in the industry.

Some of the main features of Table 37 must be summarized both as to the state of wages in 1891, and also to their course throughout the period investigated, if we would gather from the table what is contained in it. It will be in order to observe first the wages of 1891. The briefest glance at the table shows that in the vast majority of cases the increase has been quite marked. There are occasional instances where wages have declined, but they are very few. All the facts relating to the wages in 1891 are brought out in Table 38, which shows the measure of the advance or decline.

TABLE 38.—*Changes in wages, 1891 compared with 1860.*

Industries.	No. of quotations.	Decrease.		Uniform.	Increase.				
		25 to 50 per cent.	Less than 25 per cent.		Less than 25 per cent.	25 to 50 per cent.	50 to 75 per cent.	75 to 100 per cent.	100 per cent or over.
Agricultural implements	5	.....	.....	.....	2	2	.....	1	.....
Ale, beer, and porter	5	.....	.....	.....	.....	1	.....	2	2
Books and newspapers	21	.....	1	.....	4	7	5	3	1
Building trades	39	1	.....	.....	2	5	9	12	10
Carriages and wagons	4	.....	.....	.....	.....	.....	.....	.....	4
City public works	23	.....	.....	.....	1	5	7	8	2
Cotton goods	131	1	6	.....	16	35	21	23	29
Dry goods (stores)	3	.....	.....	.....	.....	1	1	.....	1
Ginghams	30	.....	.....	.....	3	11	8	7	1
Groceries (stores)	2	.....	.....	.....	.....	.....	1	.....	1
Illuminating gas	22	.....	.....	.....	.....	3	10	7	2
Leather	16	.....	.....	2	3	6	4	.....	1
Lumber	5	.....	.....	.....	.....	1	1	3	.....
Metals and metallic goods	130	1	4	2	14	47	42	12	8
Paper	7	.....	.....	.....	.....	.....	4	.....	3
Railroads	11	.....	.....	.....	3	1	7	.....	.....
Sidewalks	4	.....	.....	1	.....	.....	.....	.....	3
Spice	5	1	.....	.....	1	.....	1	1	1
Stone	19	.....	.....	.....	.....	8	6	1	4
White lead	3	.....	.....	.....	1	1	1	.....	.....
Woollen goods	58	.....	1	1	7	19	10	6	14
Total	543	4	12	6	57	153	138	86	87

The most striking fact of the table is the insignificant number of falling or stationary wages. They are, in all, only 22 out of a total of 543, or about 4 per cent of the whole number. A further fact of interest is that the number of cases in which wages advanced 50 per cent or more forms a majority of all. It is significant that in 87 cases wages have doubled since 1860.

So much for the individual series. It remains to examine them in combination. If we average all the quotations, giving each an equal weight in the result, we find that wages stood at 160.7 in 1891 as compared with 1860, while in 1840 they stood at 87.7 as compared with the same year.

In Table 39 we present the averages by industries, and for the total giving each quotation equal force in determining the result.

TABLE 39.—*Rates of wages for 52 years—Relative wages, by industries.*

GENERAL AVERAGE OF WAGES.

Year.	Agricultural implements.	Ale, beer, and porter.	Books and newspapers.	Building trades.	Carriages and wagons.	City public works.	Cotton goods.	Dry goods.	Ginghams.	Groceries.	Illuminating gas.
1840	.....	.....	.....	85.0	100.0	.....	86.0	.....	.....	.....	92.7
1841	.....	.....	.....	85.0	100.0	.....	80.6	.....	.....	.....	94.3
1842	.....	.....	68.6	86.2	100.0	.....	87.5	.....	.....	.....	91.3
1843	.....	78.2	72.3	84.7	100.0	.....	87.6	.....	.....	.....	98.1
1844	.....	68.8	73.8	85.0	100.0	.....	85.7	.....	.....	.....	93.4
1845	.....	.....	74.8	86.6	100.0	.....	86.6	.....	.....	.....	96.4
1846	.....	.....	77.3	88.9	100.0	.....	90.8	.....	.....	.....	93.8
1847	.....	.....	78.2	92.6	100.0	.....	91.9	.....	.....	.....	95.2
1848	.....	.....	81.6	92.0	100.0	.....	93.4	.....	.....	.....	96.6
1849	.....	.....	85.3	89.6	100.0	.....	94.5	.....	94.2	.....	93.7
1850	.....	.....	89.1	86.2	100.0	.....	93.9	102.7	98.1	.....	94.6
1851	.....	.....	80.3	87.9	100.0	.....	87.7	102.7	94.5	.....	94.6
1852	.....	.....	82.1	88.7	100.0	.....	87.9	102.7	94.5	.....	92.9
1853	.....	.....	84.7	90.6	100.0	.....	90.4	102.7	94.6	.....	95.3
1854	.....	96.8	86.8	93.4	100.0	102.1	94.5	102.7	97.0	.....	98.1
1855	.....	84.5	88.9	95.7	100.0	103.1	98.7	102.7	99.0	100.0	100.5
1856	.....	90.6	86.1	96.5	100.0	100.2	101.2	102.7	101.1	100.0	99.4
1857	98.0	93.0	92.0	98.7	100.0	102.1	102.0	102.7	101.9	100.0	99.5
1858	103.1	96.0	98.0	95.8	100.0	97.5	96.9	102.7	101.9	100.0	99.0
1859	94.9	97.2	97.2	100.8	100.0	102.5	98.6	100.0	102.9	100.0	100.2
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	102.1	105.3	96.6	100.4	100.0	98.4	98.9	.....	101.2	100.0	100.9
1862	99.8	115.4	98.9	106.3	169.9	97.8	99.2	100.0	102.8	145.2	101.6
1863	105.5	116.1	103.5	119.7	169.9	108.7	106.0	126.9	104.4	159.5	113.7
1864	111.7	127.8	114.0	143.7	169.9	135.8	122.2	126.9	106.7	159.5	141.6
1865	141.9	134.0	135.0	161.1	169.9	150.8	134.7	135.7	123.2	159.5	164.0
1866	156.8	157.7	139.2	170.0	169.9	154.4	153.2	135.7	146.0	159.5	171.0
1867	155.6	158.9	145.4	185.1	169.9	165.0	160.4	135.7	151.5	159.5	172.8
1868	152.3	163.9	156.0	185.5	169.9	169.9	160.9	135.7	153.7	159.5	182.9
1869	151.5	168.3	157.7	189.2	179.9	171.4	161.8	134.3	153.1	159.5	188.0
1870	152.6	168.5	156.1	185.5	179.9	172.9	160.6	134.3	154.2	147.5	186.1
1871	152.1	168.1	159.8	182.7	179.9	175.3	165.3	134.3	161.9	147.5	188.9
1872	154.0	169.1	159.4	183.3	179.9	182.4	169.0	132.8	164.2	147.5	189.4
1873	152.4	172.4	164.0	179.4	179.9	177.5	167.2	132.8	165.5	147.5	207.0
1874	157.1	178.2	159.3	178.1	179.9	179.5	155.8	132.8	163.3	147.5	201.7
1875	158.5	174.6	159.2	169.2	179.9	178.8	150.3	132.8	158.2	157.2	193.7
1876	141.3	159.4	155.9	158.6	179.9	168.0	142.1	132.8	156.9	157.2	190.3
1877	129.4	159.4	150.7	146.3	179.9	155.1	135.5	132.8	149.8	157.2	180.1
1878	130.6	179.2	145.6	140.7	179.9	141.9	135.3	134.0	148.5	159.5	174.2
1879	128.1	171.7	141.9	137.9	179.9	138.7	136.2	134.0	147.3	159.5	159.4
1880	124.9	176.2	140.7	142.7	202.4	141.5	139.9	134.0	143.8	159.5	154.3
1881	124.6	182.4	141.3	160.1	202.4	145.5	144.8	134.0	146.0	159.5	158.1
1882	123.4	183.7	139.0	165.1	202.4	151.9	146.8	134.0	147.5	159.5	163.2
1883	139.8	158.5	146.6	166.0	202.4	158.4	146.5	.....	148.9	159.5	168.3
1884	127.7	177.6	142.6	168.5	202.4	162.0	146.6	132.8	144.1	159.5	166.2
1885	132.0	179.9	145.2	169.9	202.4	162.8	143.5	132.8	137.4	194.7	166.4
1886	140.0	180.2	143.5	170.3	202.4	163.5	147.0	135.7	137.0	194.7	164.5
1887	140.3	202.1	144.0	170.1	202.4	163.8	150.6	135.7	143.3	194.7	163.8
1888	139.0	225.2	146.1	170.9	202.4	166.0	153.7	135.7	145.2	194.7	166.5
1889	137.8	224.7	148.7	170.1	202.4	164.8	157.0	162.6	146.5	194.7	166.8
1890	139.0	224.5	147.6	172.7	202.4	164.8	159.7	185.3	152.4	194.7	166.9
1891	137.9	224.7	148.6	172.5	202.4	164.6	165.1	183.6	152.7	194.7	167.7

TABLE 39.—*Rates of wages for 52 years—Relative wages, by industries*—Concluded.

GENERAL AVERAGE OF WAGES—Concluded.

Year.	Leather.	Lumber.	Metals and metallic goods.	Paper.	Railroads.	Sidewalks.	Spice.	Stone.	White lead.	Woollen goods.	All industries.
1840	.....	59.1	84.6	.....	89.5	.....	.....	80.4	90.7	.....	87.7
1841	.....	56.3	78.9	.....	90.1	.....	.....	87.4	.....	.....	88.0
1842	.....	61.5	94.2	.....	91.2	87.5	.....	79.2	73.8	.....	87.1
1843	.....	70.7	85.1	.....	90.6	87.5	.....	71.8	73.8	.....	86.6
1844	.....	76.0	88.5	.....	89.0	87.5	.....	76.5	73.8	.....	86.5
1845	.....	89.9	83.3	.....	89.6	87.5	.....	80.2	89.5	.....	86.8
1846	.....	92.8	85.7	.....	89.9	87.5	.....	97.8	91.8	.....	89.3
1847	.....	93.8	89.2	.....	92.0	87.5	.....	85.9	89.3	.....	90.8
1848	.....	100.7	89.4	.....	91.8	87.5	.....	82.9	89.3	.....	91.4
1849	.....	97.4	91.5	.....	90.6	87.5	.....	79.2	83.9	.....	92.5
1850	.....	91.8	88.8	.....	92.5	100.0	.....	93.6	88.6	94.0	92.7
1851	.....	91.3	88.5	.....	91.5	100.0	.....	93.8	93.7	94.1	90.4
1852	.....	90.7	89.9	.....	90.0	100.0	.....	96.1	94.2	94.3	90.8
1853	.....	95.3	89.9	.....	91.2	100.0	.....	99.7	93.9	94.9	91.8
1854	.....	99.0	95.8	.....	96.8	100.0	.....	103.7	100.9	95.3	95.5
1855	.....	100.0	98.6	.....	97.5	100.0	.....	98.8	94.5	95.4	98.0
1856	88.9	96.3	100.1	.....	96.9	100.0	.....	103.1	97.6	96.9	99.2
1857	84.4	90.5	101.7	.....	96.7	100.0	.....	103.3	96.6	97.4	99.9
1858	93.2	95.2	100.3	.....	97.0	100.0	.....	101.9	98.8	98.5	98.5
1859	102.6	95.5	98.4	97.6	98.6	100.0	.....	100.9	98.3	91.7	99.1
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	110.6	103.6	102.2	100.0	103.3	100.0	100.4	90.7	101.4	103.1	100.5
1862	123.4	107.2	102.8	89.5	101.4	100.0	114.0	91.5	104.8	103.6	102.9
1863	138.4	131.8	106.5	107.2	103.0	112.6	98.5	109.5	109.9	111.7	110.5
1864	153.7	144.6	121.3	108.9	111.7	137.5	106.6	135.7	120.6	120.7	125.6
1865	160.4	153.2	144.9	143.6	133.0	175.0	134.9	146.8	130.3	137.3	143.1
1866	158.1	154.2	148.0	153.9	142.1	187.5	145.9	152.5	131.9	146.1	152.4
1867	151.7	157.1	151.2	161.3	150.7	.....	125.5	159.3	135.2	150.5	157.6
1868	150.7	163.7	153.6	171.4	154.2	.....	129.3	163.8	134.9	144.0	159.2
1869	152.1	165.6	156.3	171.9	157.2	212.5	118.6	169.8	154.5	149.1	162.0
1870	151.6	169.0	157.1	171.1	164.8	212.5	143.9	168.8	119.0	154.5	162.2
1871	153.4	168.1	155.6	173.9	164.4	200.0	122.2	169.9	136.1	155.1	160.6
1872	153.3	172.6	157.7	176.5	164.1	200.0	157.2	173.0	128.9	156.1	166.9
1873	154.9	177.7	160.2	190.1	165.3	200.0	149.2	171.3	140.0	158.3	167.1
1874	153.0	179.5	157.2	181.8	154.5	181.3	143.5	166.7	144.8	148.1	161.5
1875	141.9	171.8	154.2	191.9	157.4	162.5	156.2	161.3	144.8	154.7	158.4
1876	136.4	173.0	149.1	207.1	147.4	150.0	161.1	153.8	136.4	151.8	152.5
1877	136.8	176.8	143.8	167.6	141.9	150.0	160.9	138.9	133.0	143.1	144.9
1878	139.1	177.9	140.6	145.0	136.3	150.0	162.7	137.4	113.0	144.0	142.5
1879	128.9	175.4	134.6	165.3	137.9	150.0	157.1	129.6	119.0	145.0	139.9
1880	131.3	173.3	134.3	158.5	143.8	150.0	151.6	128.7	117.4	151.6	141.5
1881	130.8	176.8	139.0	168.1	148.9	150.0	153.0	136.1	119.7	153.8	146.5
1882	131.6	175.3	144.0	170.2	146.0	181.3	144.2	149.5	124.4	155.7	149.9
1883	133.7	175.4	147.2	181.4	149.4	181.3	155.2	147.4	135.2	163.6	152.7
1884	134.3	169.9	147.0	178.2	147.2	181.3	158.8	150.1	121.1	166.7	152.7
1885	128.2	170.3	143.0	178.8	155.1	181.3	158.2	150.4	129.3	163.1	150.7
1886	132.0	169.6	139.6	181.5	146.5	181.3	156.0	152.5	135.4	165.3	150.9
1887	134.4	170.9	143.3	181.8	145.6	181.3	162.4	153.1	141.1	167.9	152.7
1888	134.9	170.6	144.6	179.1	149.1	181.3	161.0	156.8	140.6	165.6	155.4
1889	131.5	175.1	146.2	182.7	148.3	181.3	162.4	156.9	140.3	165.0	154.7
1890	132.4	176.7	148.0	175.2	147.0	181.3	164.0	161.9	140.8	168.0	156.9
1891	137.6	177.9	148.6	182.3	146.4	187.5	164.2	165.2	140.6	167.8	160.7

The range of variation in 1891 is all the way from 137.9 in agricultural implements to 224.7 in ale, beer, and porter. The average, which is not that of the twenty-one groups considered as such, but of the 543 quotations, is as noted above, 160.7.

In order to obtain a somewhat more exact statement of the general level of wages we have attempted to combine the figures given for each industry in such a way as to give to it a value proportionate to its importance. The measure of its importance is taken to be the number of persons engaged in each industry. So far as they were to be obtained the number of persons engaged in each industry at each census period is indicated in Table 40.

TABLE 40.—*Persons engaged in certain occupations in census years.*

	Occupation.	1840.	1850.	1860.	1870.	1880.
1	Agricultural implements	.....	1,313	2,390	3,811	4,891
2	Ale, beer, and porter	12,223	4,854	6,307	11,246	16,278
3	Books and newspapers	11,523	14,740	23,106	40,193	72,726
4	Building trades	85,501	277,962	363,995	559,389	654,677
5	Carriages and wagons	.....	494	238	42,464	49,881
6	City public works*	.....	.....	.....	14,407	31,601
7	Cotton goods	72,119	34,909	29,212	111,606	169,771
8	Dry goods (clerks in stores)	.....	101,325	184,485	222,504	353,444
9	Illuminating gas	.....	.....	.....	2,086	4,695
10	Leather	26,018	22,310	13,707	28,702	29,842
11	Lumber	22,042	10,070	15,929	17,752	30,651
12	Metals and metallic goods	30,497	45,579	42,965	81,237	114,539
13	Paper	4,726	2,379	5,180	12,469	21,430
14	Railroads	.....	4,831	36,567	154,027	236,058
15	Stone	7,859	14,076	19,497	25,831	32,842
16	White lead†	.....	.....	752	.....	2,923
17	Woollen goods	21,342	23,903	23,324	78,158	117,272

* Employés of government. † Manufacture of chemicals.

The figures are taken from the census tables of occupations except for the years 1840 and 1850, when they were taken from the statistics of manufactures. The list here given does not cover all the industries of Table 39. Some of the latter, such as sidewalks and spice, are not of sufficient consequence to be specifically noted in the census tables. Ginghams are included under cotton mills, and are not taken account of separately. Dry goods and groceries are both covered by the census term, clerks in stores, and the dry goods series has been taken as the basis of subsequent calculation. As will be seen from the above statement the census designations do not always cover exactly those of the Table 39. But they are sufficiently near to be used. It should be mentioned, however, that city public works in Table 39 stand for employés of governments in the census classification. This is perfectly fair, as the census classes employés distinct from officials and clerks. White lead in our table stands for all chemical manufacture.

The facts as given in the table relate to periods ten years distant. Between two enumerations great changes frequently take place. In order to meet this difficulty we have used the census figures for the first five years of each decade, while for the latter half we have taken the mean between the two censuses. Thus for 1845–'49 we use an average of the results of 1840 and 1850. This gives us a system of weights which is exhibited in Table 41.

TABLE 41.—*Relative importance of different industries.*

	Industry.	1840-'44.	1845-'49.	1850-'54.	1855-'59.	1860-'64.	1865-'69.	1870-'74.	1875-'79.	1880-'91.
1	Agricultural implements	.....	.....	1	2	2	3	4	4	5
2	Ale, beer, and porter	12	8	5	5	6	9	11	14	16
3	Books and newspapers	12	13	15	19	23	32	40	57	73
4	Building trades	86	182	278	321	364	462	559	607	655
5	Carriages and wagons	.....	.....	1	.....	.....	21	42	46	50
6	City public works	.....	.....	.....	.....	.....	.....	14	23	32
7	Cotton goods	72	53	35	32	29	70	112	141	170
8	Dry goods (stores)	.....	.....	101	143	185	203	223	288	353
9	Illuminating gas	.....	.....	.....	.....	.....	.....	2	3	5
10	Leather	26	24	22	18	14	21	29	29	30
11	Lumber	22	16	10	13	16	17	18	24	31
12	Metals and metallic goods	30	38	46	44	43	62	81	96	115
13	Paper	5	4	2	4	5	9	13	17	21
14	Railroads	.....	.....	5	21	37	95	154	195	236
15	Stone	8	11	14	17	20	23	26	29	33
16	White lead	.....	.....	.....	.....	1	.....	.....	.....	3
17	Woollen goods	21	23	24	24	23	51	78	98	117
	Total	294	372	559	663	768	1,078	1,406	1,673	1,945

Here the number opposite each industry represents in thousands the number employed. The figures for 1890 being as yet untabulated we use the same weights after 1880. In making use of these weights the relative wage in each industry is multiplied by the appropriate weight and the sum of the results divided by the sum of the weights.

According to this method of calculation we secure results which are slightly different from those of Table 39. They are given for each year in Table 42 in comparison with the results reached by the method of simple averaging.

TABLE 42.—*Relative wages in all occupations, 1840-'91, grouped by different methods.*

Year.	Simple average.	Average according to importance.	Year.	Simple average.	Average according to importance.
1840	87.7	82.5	1866	152.4	155.6
1841	88.0	79.9	1867	157.6	164.0
1842	87.1	84.1	1868	159.2	164.9
1843	86.6	83.0	1869	162.0	167.4
1844	86.5	83.2	1870	162.2	167.1
1845	86.8	85.7	1871	163.6	168.4
1846	89.3	89.1	1872	166.0	167.1
1847	90.8	91.3	1873	167.1	166.1
1848	91.4	91.6	1874	161.5	162.5
1849	92.5	90.5	1875	158.4	158.0
1850	92.7	90.9	1876	152.5	151.4
1851	90.4	91.1	1877	144.9	143.8
1852	90.8	91.8	1878	142.5	140.9
1853	91.8	93.2	1879	139.9	139.4
1854	95.8	95.8	1880	141.5	143.0
1855	98.0	97.5	1881	146.5	150.7
1856	99.2	98.0	1882	149.9	152.9
1857	99.9	99.2	1883	152.7	153.2
1858	98.5	97.9	1884	152.7	153.1
1859	99.1	99.7	1885	150.7	155.9
1860	100.0	100.0	1886	150.9	156.8
1861	100.8	100.7	1887	153.7	156.6
1862	102.9	103.7	1888	156.4	157.9
1863	110.5	113.8	1889	156.7	162.9
1864	125.6	124.0	1890	158.9	163.2
1865	143.1	143.6	1891	160.7	163.6

It appears from this table that the wages of 1891 are slightly higher by the method of averaging by importance. They are somewhat over

two-thirds more than in 1860, and more than double what they were in 1840.

We may now turn our attention to the course of wages, as shown in Table 42. Whether we consider the first or the second column, we find a pretty steady advance during the period which preceded the war. After 1860 we observe the maximum wages by the first method in the year 1872. It is noteworthy that the effect of currency depreciation and the disturbed state of affairs was much more marked on prices than on wages. By the second method of calculation the maximum since 1860 is found in the year 1891. Wages reached a high point in the years 1871–'72. After 1873 there was a marked falling off. The ground then lost was gradually regained until to-day wages are at about the same point as they were in 1871–'72.

The movement in a general way is more clearly shown in Table 43, which reduces the foregoing to five-year periods.

TABLE 43.—*Relative wages in all occupations, by five-year periods, 1840–1891, grouped by different methods.*

Period.	Simple average.	Average according to importance.	Period.	Simple average.	Average according to importance.
1840–'44	87.2	82.5	1870–'74	164.1	165.8
1845–'49	90.2	89.6	1875–'79	147.6	146.7
1850–'54	92.3	92.6	1880–'84	148.7	152.2
1855–'59	98.9	98.5	1885–'89	153.5	157.8
1860–'64	108.0	111.4	1890–'91 (2 years)	159.8	168.4
1865–'69	154.9	160.1			

This shows that during the war period the advance in wages was not commensurate with the advance in prices. The upward movement was imparted to wages later. Hence we see the wages in the period 1870–'74 exceed those of the preceding five years. Immediately following there was a considerable drop in wages, though thereafter the advance has been steady. In the years 1890–'91 wages stand as high as did currency wages in the years following 1870.

HOURS OF LABOR.

The examination of the course of wages would be incomplete without a reference to the hours of labor. As our comparisons are based upon a day's work they would acquire a new significance if there were marked differences in the hours per day in the periods compared. In order to throw a light upon this point Table 44 has been prepared. It gives the average hours of labor in each industry for each of the occupations which figure in the former tables.

TABLE 44.—*Average hours of labor, by industries, 1840–1891.*

Year.	Agricultural implements.	Ale, beer, and porter.	Books and newspapers.	Building trades.	Carriages and wagons.	City public works.	Cotton goods.	Dry goods.	Ginghams.	Groceries.	Illuminating gas.
1840	.....	.....	.....	10.0	10.0	.....	14.0	.....	.....	.....	10.1
1841	.....	.....	.....	10.0	10.0	.....	14.0	.....	.....	.....	10.1
1842	.....	.....	10.0	10.0	10.0	.....	14.0	.....	.....	.....	10.2
1843	.....	12.0	10.0	10.0	10.0	.....	13.6	.....	.....	.....	10.2
1844	.....	12.0	10.0	10.0	10.0	.....	13.6	.....	.....	.....	10.2
1845	.....	.....	10.0	10.0	10.0	.....	13.6	.....	.....	.....	10.2
1846	.....	.....	10.0	10.0	10.0	.....	13.5	.....	.....	.....	10.2
1847	.....	.....	10.0	10.0	10.0	.....	13.5	.....	.....	.....	10.2
1848	.....	.....	10.0	10.0	10.0	.....	13.5	.....	.....	.....	10.2
1849	.....	.....	10.0	10.0	10.0	.....	13.5	.....	11.2	.....	10.3
1850	.....	.....	10.0	10.0	10.0	.....	13.5	11.0	11.2	.....	10.4
1851	.....	.....	10.0	10.0	10.0	.....	13.1	11.0	11.2	.....	10.4
1852	.....	.....	10.0	10.0	10.0	.....	12.3	11.0	11.2	.....	10.4
1853	.....	.....	10.0	10.0	10.0	.....	12.2	11.0	11.2	.....	10.4
1854	.....	12.0	10.0	10.0	10.0	11.2	12.2	11.0	11.1	.....	10.4
1855	.....	12.0	10.0	10.0	10.0	10.9	12.2	11.0	11.1	11.0	10.4
1856	.....	12.0	10.0	10.0	10.0	10.9	12.0	11.0	11.1	11.0	10.4
1857	10.0	12.0	10.0	10.1	10.0	10.4	12.0	11.0	11.1	11.0	10.4
1858	10.0	12.0	10.0	10.1	10.0	10.5	12.0	11.0	11.1	11.0	10.4
1859	10.0	12.0	10.0	10.1	10.0	10.5	12.2	11.0	11.1	11.0	10.5
1860	10.0	12.0	10.0	10.1	10.0	10.4	12.2	11.0	11.1	11.0	10.4
1861	10.0	12.0	10.0	10.1	10.0	10.4	11.6	.....	11.1	11.0	10.5
1862	10.0	12.0	10.0	10.1	10.0	10.4	11.4	11.0	11.1	11.0	10.4
1863	10.0	12.0	10.0	10.1	10.0	10.5	11.3	11.0	11.1	11.0	10.5
1864	10.0	12.0	10.0	10.1	10.0	10.4	11.2	11.0	11.1	11.0	10.5
1865	10.0	12.0	10.0	10.0	10.0	10.4	11.2	11.0	11.1	11.0	10.4
1866	10.0	12.0	10.0	10.0	10.0	10.4	11.4	11.0	11.1	11.0	10.5
1867	10.0	12.0	10.0	10.0	10.0	10.4	11.4	11.0	11.1	11.0	10.5
1868	10.0	12.0	10.0	10.0	10.0	10.4	11.0	11.0	11.1	11.0	10.5
1869	10.0	12.0	10.0	10.0	10.0	10.4	11.0	11.0	11.1	11.0	10.5
1870	10.0	12.0	10.0	10.0	10.0	9.4	11.0	11.0	11.1	11.0	10.4
1871	10.0	12.0	10.0	10.0	10.0	9.3	11.0	11.0	11.1	11.0	10.4
1872	10.0	12.0	10.0	9.9	10.0	9.3	11.0	11.0	11.1	11.0	10.4
1873	10.0	12.0	10.0	9.9	10.0	9.4	11.0	11.0	11.1	11.0	10.4
1874	10.0	12.0	10.0	9.9	10.0	9.4	11.0	11.0	11.1	11.0	10.4
1875	10.0	12.0	10.0	9.9	10.0	9.4	10.3	11.0	10.1	11.0	10.4
1876	10.0	12.0	10.0	9.9	10.0	9.4	10.3	11.0	10.1	11.0	10.4
1877	10.0	12.0	10.0	9.9	10.0	9.3	10.3	11.0	10.1	11.0	10.4
1878	10.0	12.0	10.0	9.9	10.0	9.4	10.3	11.0	10.1	11.0	10.4
1879	10.0	12.0	10.0	9.9	10.0	9.3	10.3	11.0	10.1	11.0	10.4
1880	10.0	12.0	10.0	9.9	10.0	9.4	10.3	11.0	10.1	11.0	10.4
1881	10.0	12.0	10.0	9.9	10.0	9.4	10.3	11.0	10.1	11.0	10.4
1882	10.0	12.0	10.0	9.9	10.0	9.4	10.3	11.0	10.1	11.0	10.4
1883	10.0	12.0	10.0	9.9	10.0	9.4	10.3	.....	10.1	11.0	10.4
1884	10.0	12.0	10.0	9.9	10.0	9.4	10.3	11.0	10.1	11.0	10.4
1885	10.0	12.0	10.0	9.9	10.0	9.4	10.3	11.0	10.1	11.0	10.4
1886	10.0	12.0	10.0	9.8	10.0	9.3	10.3	11.0	10.1	11.0	10.4
1887	10.0	12.0	10.0	9.7	10.0	9.3	10.0	11.0	10.1	11.0	10.4
1888	10.0	12.0	10.0	9.7	10.0	9.2	10.0	11.0	10.1	11.0	10.4
1889	10.0	12.0	10.0	9.6	10.0	9.3	10.0	11.0	10.1	11.0	10.4
1890	10.0	12.0	10.0	9.6	10.0	9.3	10.0	11.0	10.1	11.0	10.4
1891	10.0	12.0	10.0	9.4	10.0	9.3	10.0	11.0	10.1	11.0	10.4

TABLE 44.—*Average hours of labor, by industries, 1840-1891*—Concluded.

Year.	Leather.	Lumber.	Metals and metallic goods.	Paper.	Railroads.	Sidewalks.	Spices.	Stone.	White lead.	Woollen goods.	All industries.
1840	.....	12.0	10.0	.....	10.0	.....	.....	10.0	9.3	.....	11.4
1841	.....	12.0	10.0	.....	10.0	.....	.....	10.0	.....	.....	10.5
1842	.....	12.0	10.0	.....	10.0	10.3	.....	10.3	9.3	.....	11.4
1843	.....	12.0	10.0	.....	10.0	10.3	.....	10.3	9.3	.....	11.5
1844	.....	12.0	10.3	.....	10.0	10.3	.....	10.3	9.3	.....	11.6
1845	.....	12.0	10.6	.....	10.0	10.3	.....	10.3	9.3	.....	11.5
1846	.....	12.0	10.6	.....	10.0	10.3	.....	10.5	9.3	.....	11.4
1847	.....	12.0	10.5	.....	10.0	10.3	.....	10.3	9.3	.....	11.5
1848	.....	11.0	10.4	.....	10.0	10.3	.....	10.3	9.3	.....	11.3
1849	.....	11.0	10.3	.....	10.0	10.3	.....	11.0	9.3	.....	11.2
1850	.....	11.0	10.3	.....	10.0	10.3	.....	11.0	9.3	14.0	11.5
1851	.....	11.0	10.3	.....	10.0	10.3	.....	10.7	9.3	14.0	11.4
1852	.....	10.7	10.3	.....	10.0	10.3	.....	10.0	9.3	14.0	11.2
1853	.....	10.0	10.3	.....	10.0	10.3	.....	10.0	9.3	14.0	11.3
1854	.....	10.0	10.2	.....	10.0	10.3	.....	10.1	9.3	14.0	11.1
1855	.....	10.0	10.1	.....	10.0	10.3	.....	10.0	9.3	14.0	11.1
1856	11.0	10.0	10.1	.....	10.0	10.3	.....	10.0	9.3	14.0	11.0
1857	11.0	10.0	10.1	.....	10.0	10.3	.....	10.0	9.3	14.0	10.9
1858	11.0	10.8	10.1	.....	10.0	10.3	.....	10.0	9.3	14.0	11.0
1859	11.0	10.8	10.1	12.0	10.0	10.3	.....	10.0	9.3	13.2	11.1
1860	11.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	9.3	12.7	11.0
1861	10.6	10.8	10.1	12.0	10.0	10.3	10.0	10.0	9.3	12.7	10.9
1862	10.6	10.8	10.1	12.0	10.0	10.3	10.0	10.0	9.3	12.7	10.8
1863	10.6	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	12.6	10.8
1864	10.6	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.0	12.7	10.8
1865	10.6	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	12.0	10.7
1866	10.6	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	12.0	10.8
1867	10.6	10.8	10.1	12.0	10.0	.....	10.0	10.0	10.5	12.1	10.8
1868	10.6	10.8	10.1	12.0	10.0	.....	10.0	10.0	10.5	11.5	10.6
1869	10.6	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	11.5	10.6
1870	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	11.5	10.5
1871	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.7	11.5	10.5
1872	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.7	11.5	10.5
1873	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	11.5	10.5
1874	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	11.5	10.5
1875	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	11.5	10.3
1876	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	11.4	10.3
1877	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	11.6	10.3
1878	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	11.4	10.3
1879	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	11.4	10.3
1880	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	11.4	10.3
1881	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	11.4	10.3
1882	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	11.4	10.3
1883	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.7	11.4	10.3
1884	10.0	10.8	10.1	12.0	10.0	10.3	10.0	10.0	10.5	11.4	10.3
1885	10.0	10.8	10.1	12.0	10.0	9.4	10.0	10.0	10.5	11.4	10.3
1886	10.0	10.8	10.1	12.0	10.0	9.4	10.0	9.8	10.5	10.4	10.2
1887	10.0	10.0	10.1	12.0	10.0	9.4	10.0	9.8	10.7	10.0	10.0
1888	10.0	10.0	10.1	12.0	10.0	9.4	10.0	9.8	10.7	10.0	10.0
1889	10.0	10.0	10.1	12.0	10.0	9.4	10.0	9.8	10.7	10.0	10.0
1890	10.0	10.0	10.1	12.0	10.0	9.4	10.0	9.8	10.7	10.0	10.0
1891	10.0	10.0	10.1	12.0	10.0	9.4	10.0	9.8	10.7	10.0	10.0

The figures here given apply to the same series of occupations for which the wages were given in the former tables. It will be observed that the variation is comparatively slight, and while in some few cases there has been no change between 1860 and 1891, in the greater number there has been a slight reduction. On the average, 11 hours per day in 1860 have given place to 10 in 1891. If we compare 1891 with 1840 we find a reduction of 1.4 hours in the daily average.

It is needless to point out the bearing of these figures upon the rate of wages. On the basis of wages per hour the 1891 wages would be still higher than those of former years than appears in the preceding discussion.

The reduction in the number of hours seems hardly so considerable as might have been expected. It must be remembered that our figures refer to certain picked establishments, where, in view of the complete organization at an early date, it is probable that shorter hours made

an earlier appearance than in the mass of work-shops. It may therefore be doubted whether these figures, absolutely correct as they are for the establishments in question, give a perfectly adequate picture of general conditions.

WAGES IN GOLD.

In the consideration of prices we concluded our discussion of the figures with a study of the relation of gold premium to the figures which had been given. In Table 45 we have reduced wages to the gold basis for the period 1862–1878 on the same plan followed in regard to prices.

TABLE 45.—*Relative wages in gold in all occupations, 1840-1891, grouped by different methods.*

Year.	Simple average.	Average according to importance.	Year.	Simple average.	Average according to importance.
1840	87.7	82.5	1866	108.8	111.1
1841	88.0	79.9	1867	117.1	121.8
1842	87.1	84.1	1868	114.9	119.1
1843	86.6	83.0	1869	119.5	122.5
1844	86.5	83.2	1870	133.7	136.9
1845	86.8	85.7	1871	147.8	150.3
1846	89.3	89.1	1872	152.2	153.2
1847	90.8	91.3	1873	148.3	147 4
1848	91.4	91.6	1874	145.0	145 9
1849	92.5	90.5	1875	140.8	140.4
1850	92.7	90.9	1876	135.2	134.2
1851	90.4	91.1	1877	136.4	135.4
1852	90.8	91.8	1878	140.5	139.0
1853	91.8	93.2	1879	139.9	139 4
1854	95.8	95.8	1880	141.5	143.0
1855	98.0	97.5	1881	146.5	150.7
1856	99.2	98.0	1882	149.9	152 9
1857	99.9	99.2	1883	152.7	159.2
1858	98.5	97.9	1884	152.7	155.1
1859	99.1	99.7	1885	150.7	155.9
1860	100.0	100.0	1886	150.9	155.3
1861	100.8	100.7	1887	153.7	156.6
1862	100.4	101.2	1888	155.4	157.9
1863	76.2	81.9	1889	156.7	162.9
1864	80.8	86.2	1890	158.9	163.2
1865	66.2	68.7	1891	160.7	163.6

From this table it appears that the advance in wages discovered in Table 42 after the war began was merely nominal. Gold rose in value more rapidly than wages advanced and as a result wages, measured in gold, fell off rapidly until in 1865 they stood at about one-third less than in 1860. The following year marked a change. From 1866 to the present time wages have shown a marked upward tendency. The wages of 1871 and 1872 are higher than in the following years. In fact, it was about ten years before the level of that period was again reached, the lowest point in the intervening period being the years 1876 and 1877. Since the early eighties, however, the advance in wages has been comparatively uniform.

RATES OF WAGES, COAL, IRON, GLASS, AND POTTERY INDUSTRIES.

An investigation supplementary to those of the Department of Labor was made by Mr. Jos. D. Weeks into the wages paid in the coal, iron, glass, and pottery industries. The results of his research are embodied in Table XIII of the report. Differing somewhat in form and method from the returns of the Table XII, it has been deemed advisable to keep the tables distinct in the analysis as well as in the report.

Table XIII gives the rates of wages in representative occupations in each industry. So far as the facts formed comparable series, they have been reduced to relative wages on the basis of 1860 in the following table:

TABLE 46.—*Relative wages for 52 years in the coal, iron, glass, and pottery industries.*

Year.	Anthracite coal miners' wages, Eastern Pennsylvania.	Bar iron.							Green glass bottles.	
		Puddlers' earnings, Etna, Pa.	Puddlers' earnings, Duncannon, Pa.	Average of puddlers' earnings.	Puddlers' helpers' earnings, Etna, Pa.	Puddlers' helpers' earnings, Duncannon, Pa.	Average of puddlers' helpers' earnings.	Rollers' earnings, Duncannon, Pa.	Blowers' earnings, 2-ounce, New Jersey.	Blowers' earnings, 4-ounce, New Jersey.
1840	111.1	138.2	114.4	126.3	139.1	113.9	126.5	90.0	76.2	81.8
1841	92.6	129.2	114.4	121.8	129.3	113.9	121.6	90.0	76.2	81.8
1842	92.6	117.2	114.4	115.8	118.0	113.9	116.0	90.0	76.2	81.8
1843	83.9	117.2	114.4	115.8	118.0	113.9	116.0	90.0	100.0	109.5
1844	79.7	117 2	114.4	115.8	118.0	113.9	116.0	90.0	111.9	119.1
1845	93.7	138.2	114.4	126.3	139.1	113.9	126.5	90.0	111.9	119.1
1846	100.0	138.2	114.4	126.3	139.1	113.9	126.5	90.0	123.8	134.1
1847	100.0	138.2	114.4	126.3	139.1	113.9	126.5	90.0	123.8	134.1
1848	100.0	138.2	114.4	126.3	139.1	113.9	126.5	90.0	116.7	113.6
1849	97.0	138.2	114.4	126.3	139.1	113.9	126.5	90.0	116.7	113.6
1850	100.0	112.4	100.0	106.2	112.8	100.0	106.4	78.8	116.7	113.6
1851	107.4	112.4	100.0	106.2	112.8	100.0	106.4	78.8	123.8	113.6
1852	100.0	112.4	86.1	99.3	112.8	85.1	99.0	78.8	123.8	113.6
1853	98.1	112.4	128.9	120.7	112.8	128.7	120.8	100.0	123.8	113.6
1854	119.2	112.4	128.9	120.7	112.8	128.7	120.8	100.0	107.1	102.3
1855	107.9	100.0	128.9	114.5	100.0	128.4	114.2	99.6	107.1	102.3
1856	104.2	100.0	143.3	121.7	100.0	142.6	121.3	108.8	107.1	102.3
1857	94.4	100.0	143.3	121.7	100.0	142.6	121.3	108.8	107.1	102.3
1858	74.8	87.3	100.0	93.7	88.0	100.0	94.0	93.8	107.1	102.3
1859	98.9	100.0	100.0	100.0	100.0	100.0	100.0	93.8	107.1	102.3
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	107.1	109.1
1862	110.2	118.5	130.6	124.6	119.2	130.2	124.7	118.8	107.1	109.1
1863	169.4	149.8	173.1	161.5	150.4	172.3	161.4	137.5	107.1	109.1
1864	223.6	196.6	240.3	218.5	197.4	239.1	218.3	162.5	160.0	159.1
1865	191.0	173.1	216.2	194.7	174.1	215.4	194.8	153.5	160.0	159.1
1866	179.3	213.7	240.3	227.0	214.3	239.6	227.0	161.3	250.0	236.4
1867	165.7	187.0	206.0	196.5	187.6	205.0	196.3	154.7	231.9	227.3
1868	239.0	167.5	240.3	203.9	168.4	239.6	204.0	177.2	231.9	227.3
1869	280.5	168.5	206.0	187.3	210.5	205.0	207.8	143.4	231.9	227.3
1870	233.4	155.1	206.0	180.6	193.2	205.0	199.1	140.6	231.9	227.3
1871	225.1	159.1	206.0	182.6	198.5	205.0	201.8	140.6	231.9	227.3
1872	212.2	180.9	243.3	212.1	225.7	241.9	233.8	164.5	231.9	227.3
1873	232.8	168.8	213.4	191.1	210.5	211.9	211.2	140.6	219.0	209.1
1874	232.1	149.1	182.1	165.6	186.5	181.7	184.1	122.5	206.7	197.3
1875	183.7	119.9	151.0	135.5	149.6	150.5	150.1	108.3	193.8	185.0
1876	174.7	118.0	142.3	130.2	147.4	141.6	144.5	101.3	169.5	165.9
1877	151.1	118.0	124.4	121.2	147.4	123.8	135.6	112.5	169.5	165.9
1878	160.3	118.0	124.4	121.2	147.4	123.8	135.6	98.4	169.5	165.9
1879	149.5	129.6	151.0	140.3	161.7	150.5	156.1	118.8	166.7	163.6
1880	178.7	140.4	170.5	155.5	175.3	169.9	172.6	132.3	231.9	227.3
1881	191.5	129.6	159.7	144.7	161.7	159.4	160.6	125.0	231.9	227.3
1882	189.6	129.6	159.7	144.7	161.7	159.4	160.6	125.0	231.9	227.3
1883	173.5	129.6	142.3	136.0	161.7	141.6	151.7	112.5	231.9	227.3
1884	173.5	129.6	124.4	127.0	161.7	123.8	142.8	98.4	231.9	227.3
1885	175.0	118.0	124.4	121.2	147.4	123.8	135.6	98.4	231.9	227.3
1886	178.5	125.1	135.8	130.5	156.4	135.6	146.0	105.6	219.5	217.3
1887	186.7	137.5	144.8	141.2	172.2	144.6	158.4	123.8	231.9	227.3
1888	180.4	137.5	135.8	136.7	172.2	135.6	153.9	115.9	231.9	227.3
1889	177.0	137.5	144.8	141.2	172.2	144.6	158.4	116.0	231.9	227.3
1890	177.0	137.5	144.8	141.2	172.2	144.6	158.4	123.8	231.9	227.3
1891	177.0	137.5	140.3	138.9	172.2	140.1	156.2	119.8	231.9	227.3

TABLE 46.—*Relative wages for 52 years, etc.*—Continued.

Year.	Green-glass bottles—concluded.				Iron ore.					
	Blowers' earnings, 8-ounce, New Jersey.	Blowers' earnings, pint, New Jersey.	Blowers' earnings, quart, New Jersey.	Average of blowers' earnings.	Miners' wages, Port Henry District, New York.	Miners' wages, Oxford, New Jersey.	Average of miners' wages.	Skilled laborers' wages, Cornwall, Pa.	Unskilled laborers' wages, Cornwall, Pa.	Blasters' and drillers' wages, New Jersey ore districts.
1840	90.0	111.1	137.9	99.4	60.0	69.0	64.5	.....	.....	70.6
1841	90.0	111.1	137.9	99.4	60.0	67.0	63.5	.....	.....	70.6
1842	90.0	111.1	137.9	99.4	80.0	73.0	76.5	.....	.....	70.6
1843	110.0	134.8	164.1	123.7	80.0	73.0	76.5	.....	.....	70.6
1844	118.3	134.8	164.1	129.6	80.0	73.0	76.5	.....	.....	70.6
1845	118.3	134.8	164.1	129.6	80.0	73.0	76.5	.....	.....	70.6
1846	126.1	138.9	163.8	137.3	80.0	73.0	76.5	.....	.....	70.6
1847	126.1	138.9	163.8	137.3	75.2	77.0	76.1	.....	.....	70.6
1848	108.7	133.3	137.9	122.0	75.2	73.0	74.1	.....	.....	70.6
1849	108.7	133.3	137.9	122.0	75.2	69.0	72.1	.....	.....	70.6
1850	108.7	133.3	137.9	122.0	75.2	69.0	72.1	.....	.....	88.2
1851	108.7	133.3	129.3	121.7	80.0	69.0	74.5	.....	.....	94.1
1852	108.7	133.3	129.3	121.7	100.0	73.0	86.5	84.2	80.0	94.1
1853	108.7	133.3	129.3	121.7	100.0	92.0	96.0	84.2	80.0	94.1
1854	108.7	120.0	124.1	112.4	100.0	106.3	103.2	94.7	93.3	94.1
1855	108.7	120.0	124.1	112.4	100.0	100.0	100.0	94.7	93.3	94.1
1856	108.7	120.0	124.1	112.4	100.0	100.0	100.0	115.8	120.0	94.1
1857	108.7	120.0	124.1	112.4	100.0	106.2	103.1	115.8	120.0	94.1
1858	104.3	110.0	106.2	106.0	100.0	80.0	90.0	105.3	106.7	94.1
1859	104.3	110.0	106.2	106.0	100.0	100.0	100.0	100.0	100.0	117.6
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	114.8	133.3	132.8	119.4	100.0	90.0	95.0	105.3	106.7	94.1
1862	114.8	133.3	132.8	119.4	108.0	100.0	104.0	115.8	120.0	94.1
1863	114.8	133.3	132.8	119.4	112.0	125.0	118.5	126.3	133.3	135.3
1864	163.0	163.0	164.1	161.8	200.0	175.0	187.5	178.9	206.7	186.7
1865	163.0	163.0	164.1	161.8	120.0	187.5	153.8	178.9	186.7	186.3
1866	234.8	183.3	169.0	214.7	132.0	143.8	137.9	184.2	193.3	155.3
1867	217.4	203.7	193.1	214.7	164.0	143.8	153.9	189.5	200.0	171.5
1868	217.4	203.7	193.1	214.7	164.0	150.0	157.0	194.7	200.0	171.8
1869	217.4	203.7	193.1	214.7	164.0	150.0	157.0	194.7	200.0	171.8
1870	217.4	203.7	193.1	214.7	164.0	162.5	163.3	194.7	200.0	171.8
1871	217.4	203.7	193.1	214.7	164.0	150.0	157.0	194.7	200.0	184.7
1872	217.4	203.7	193.1	214.7	164.0	181.3	172.7	200.0	200.0	194.1
1873	217.4	192.6	186.2	204.9	184.0	212.5	198.3	215.8	220.0	176.5
1874	204.3	177.8	172.4	191.7	208.0	143.8	175.9	210.5	200.0	152.9
1875	191.3	166.7	163.8	180.1	140.0	125.0	132.5	184.2	166.7	117.6
1876	147.0	144.4	134.5	152.3	140.0	112.5	126.3	168.4	153.3	105.9
1877	147.0	144.4	134.5	152.3	120.0	100.0	110.0	168.4	153.3	91.0
1878	147.0	144.4	134.5	152.3	120.0	100.0	110.0	168.4	153.3	89.4
1879	156.5	144.4	134.5	153.1	120.0	93.8	106.9	168.4	153.3	105.9
1880	217.4	200.0	188.6	213.0	128.0	122.5	125.3	173.7	160.0	147.1
1881	217.4	200.0	188.6	213.0	140.0	125.0	132.5	194.7	186.7	129.4
1882	217.4	200.0	188.6	213.0	148.0	150.0	149.0	215.8	213.3	152.9
1883	217.4	200.0	188.6	213.0	140.0	125.0	132.5	215.8	213.3	129.4
1884	217.4	200.0	188.6	213.0	132.0	110.0	121.0	215.8	213.3	105.7
1885	217.4	200.0	188.6	213.0	120.0	88.0	104.0	200.0	193.3	105.9
1886	207.8	177.0	181.0	200.5	132.0	105.0	118.5	221.1	206.7	122.4
1887	217.4	200.0	188.6	213.0	140.0	120.0	130.0	231.6	220.0	132.5
1888	217.4	200.0	188.6	213.0	140.0	120.0	130.0	231.6	220.0	129.4
1889	217.4	200.0	188.6	213.0	132.0	120.0	126.0	231.6	220.0	123.1
1890	217.4	200.0	188.6	213.0	140.0	120.0	130.0	231.6	220.0	129.4
1891	217.4	200.0	188.6	213.0	132.0	120.0	126.0	221.1	206.7	132.9

TABLE 46.—*Relative wages for 52 years, etc.*—Concluded.

Year.	Metals and metallic goods.			Pig iron.		Pottery.		
	Moulders' wages, Quincy, Ill.	Cupolamen's wages, Quincy, Ill.	Melters' wages, Quincy, Ill.	Keepers' wages, Catasauqua, Pa.	Fillers' wages, Catasauqua, Pa.	Hollow ware pressers' wages, New Jersey.	Handlers' wages, New Jersey.	Window glass blowers' earnings, New Jersey.
1840				54.1	47.4	70.0	66.7	88.0
1841				54.1	47.4	70.0	66.7	88.0
1842				54.1	47.4	70.0	66.7	88.0
1843				54.1	47.4	70.0	66.7	88.0
1844				65.4	62.0	70.0	66.7	88.0
1845				76.2	73.7	75.0	77.8	113.0
1846				76.8	72.3	75.0	77.8	113.0
1847				91.9	82.5	75.0	77.8	113.0
1848				90.3	81.8	72.5	80.6	113.0
1849				75.7	74.5	72.5	80.6	113.0
1850	100.0	100.0	100.0	89.2	78.1	72.5	80.6	120.5
1851	100.0	100.0	100.0	91.4	79.6	72.5	80.6	120.5
1852	116.7	100.0	100.0	82.7	76.6	80.0	88.9	120.5
1853	116.7	100.0	100.0	88.1	84.7	80.0	88.9	120.5
1854	116.7	100.0	100.0	88.1	84.7	80.0	88.9	120.5
1855	116.7	100.0	100.0	103.8	96.4	80.0	88.9	120.5
1856	116.7	100.0	100.0	104.9	99.3	80.0	88.9	120.5
1857	100.0	100.0	100.0	104.9	99.3	80.0	88.9	120.5
1858	100.0	100.0	100.0	91.9	94.9	80.0	88.9	100.0
1859	100.0	100.0	100.0	90.3	91.2	100.0	100.0	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	116.7	100.0	112.5	102.7	105.1	100.0	100.0	100.0
1862	150.0	111.1	125.0	90.8	91.2	100.0	100.0	100.0
1863	158.3	111.1	125.0	102.7	100.7	100.0	100.0	100.0
1864	166.7	111.1	125.0	145.9	153.3	110.0	111.1	135.5
1865	166.7	111.1	125.0	134.6	140.9	110.0	111.1	150.6
1866	166.7	111.1	125.0	130.3	142.3	110.0	111.1	213.0
1867	150.0	88.9	100.0	136.8	149.6	110.0	111.1	213.0
1868	133.3	88.9	100.0	136.8	149.6	110.0	111.1	150.6
1869	125.0	88.9	100.0	149.7	164.2	120.0	111.1	150.6
1870	116.7	88.9	100.0	149.7	164.2	120.0	111.1	150.6
1871	116.7	88.9	100.0	150.3	164.2	120.0	111.1	150.6
1872	116.7	88.9	100.0	170.3	186.9	125.0	134.4	150.6
1873	116.7	88.9	100.0	176.8	194.2	125.0	134.4	132.5
1874	108.3	88.9	87.5	110.3	130.7	125.0	134.4	132.5
1875	108.3	77.8	87.5	104.9	124.1	125.0	134.4	145.8
1876	108.3	77.8	87.5	90.8	107.3	125.0	134.4	145.8
1877	108.3	77.8	87.5	84.3	100.0	140.0	137.8	145.8
1878	116.7	88.9	100.0	85.4	100.7	140.0	137.8	145.8
1879	116.7	88.9	100.0	81.6	93.4	140.0	137.8	186.7
1880	116.7	88.9	100.0	96.2	113.9	140.0	137.8	150.6
1881	116.7	88.9	100.0	96.2	113.9	152.0	159.6	150.6
1882	116.7	88.9	100.0	108.1	124.8	152.0	159.6	143.1
1883	116.7	88.9	100.0	121.6	137.2	152.0	159.6	143.1
1884	106.7	88.9	100.0	121.6	137.2	152.0	159.6	143.1
1885	106.7	88.9	100.0	108.1	124.8	152.0	159.6	150.6
1886	106.7	88.9	100.0	110.8	124.8	152.0	159.6	150.6
1887	110.0	88.9	100.0	121.6	137.2	161.0	163.9	150.6
1888	110.0	88.9	95.0	110.8	124.1	161.0	163.9	150.6
1889	110.0	88.9	95.0	121.6	137.2	161.0	163.9	150.6
1890	110.0	88.9	87.5	121.6	137.2	161.0	163.9	150.6
1891	110.0	88.9	87.5	108.1	124.1	161.0	163.9	150.6

In the table we have added some columns giving the averages in those cases where the same occupation is repeated. The position of wages in 1891 is as follows, 1860 being 100:

Anthracite coal, miners	177.0
Bar iron:	
Puddlers (average)	138.9
Puddlers' helpers (average)	156.2
Rollers	119.8
Green-glass blowers (average)	213.0
Iron ore:	
Miners (average)	126.0
Skilled laborers	221
Unskilled laborers	20
Blaster and drillers	1

Metals and metallic goods:	
Moulders	110.0
Cupolamen	88.9
Melters	87.5
Pig iron:	
Keepers	108.1
Fillers	124.1
Pottery:	
Hollow-ware pressers	161.0
Handlers	163.9
Window glass	150.6

In this summary it will be seen that the rule is advanced wages. The exception is found in the stove foundry at Quincy, Ill. There wages for two classes have decreased. It will be noted that in the tables previously given the wages of this class of labor advanced with the other occupations. On the whole, however, there is no question but that the wages in these important industries conform in the main with the results of the general investigation into wages. It may be remarked that the average of the 1891 wages given above is 145.6. If the average be taken of the 1891 figures of the table as it stands the result would be 156.5. In the foregoing statement several high wages have been averaged, and this depresses the average in the first statement. All allowances being made for different systems of obtaining the average, it is clear that the results of Table XIII conform substantially to those of Table XII. It is less comprehensive than the former, and exact agreement could not be expected.

TEACHERS' SALARIES FOR FIFTY-TWO YEARS.

In order to ascertain the changes which have taken place in the remuneration of all kinds of labor, the committee made an investigation into the remuneration of teachers as representatives of the professional class. While it would have been equally desirable to obtain some information as to the salaries of clergymen and fees of physicians, it was out of the question. Even in ascertaining the remuneration of teachers extreme difficulty was experienced. The compensation of teachers is subject to peculiar rules. The classification of teachers since the year 1840 has been subjected to many changes, and many cities have adopted a system of grading by which the salary is determined not so much by the position occupied as by the number of years of service. It was necessary, therefore, to exercise the utmost care to secure grades of teachers representing practically the same degree of talent and having essentially the same functions to-day as they had at the beginning of the period. The figures given for cities in Table XIV represent in each case the teacher of maximum proficiency in the designated grade and the man or woman of long experience as a teacher. These, in their respective positions, may be assumed to represent essentially the same standard. Our figures, therefore, are given mostly from the highest class of teachers, but to maintain a balance we have also given in each city the minimum remuneration paid to teachers. The minimum amount could be ascertained equally well with the maximum amount, whereas in the intermediate region there are infinite shadings and variations in the rate of salaries. In the following table we present an analysis of the salaries paid teachers in city schools:

TABLE 47.—*Relative teachers' salaries for 52 years in cities.*

Year.	St. Louis.					Boston.		
	Principal, high school.	Assistants, high school.	Principal, district school.	Head assistants, district school.	Third assistants, district school.	Head masters, high school.	Masters, high school.	Masters, grammar school.
1840								
1841								
1842								
1843			48.0					
1844			56.0					
1845			56.0					75.0
1846			56.0					
1847			48.0	82.4	93.3			
1848			60.0					
1849								75.0
1850								
1851								
1852						85.7	75.0	75.0
1853								90.0
1854	52.0	75.0	88.0	82.4	80.0			
1855						85.7	90.0	90.0
1856								
1857						100.0	100.0	100.0
1858	100.0	100.0	100.0	94.1	93.3	100.0	100.0	100.0
1859	100.0	100.0	100.0	94.1	93.3	100.0	100.0	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	48.0	66.7	64.0	82.4	73.3	100.0	100.0	100.0
1862	64.0	83.3	80.0	94.1	86.7	100.0	100.0	100.0
1863						100.0	100.0	100.0
1864	100.0	125.0	120.0	141.2	120.0	107.1	110.0	110.0
1865	100.0	125.0	120.0	141.2	120.0	125.0	125.0	125.0
1866	110.0	141.7	136.0	152.9	133.3	125.0	125.0	125.0
1867						142.9	150.0	150.0
1868	110.0	166.7	160.0	176.5	133.3	142.9	150.0	150.0
1869	120.0	166.7	160.0	176.5	133.3			
1870	120.0	166.7	160.0	211.8	133.3			
1871	128.0	166.7	180.0	211.8	133.3			
1872	128.0	166.7	176.0	211.8	133.3			
1873	120.0	166.7	176.0	211.8	133.3	142.9	160.0	160.0
1874	120.0	166.7	176.0	211.8	133.3			
1875	120.0	187.5	176.0	211.8	133.3			
1876	120.0	187.5	176.0	211.8	106.7	142.9	160.0	160.0
1877	111.0	154.2	162.8	195.8	106.7	135.0	150.0	150.0
1878	104.0	150.0	160.0	200.0	106.7	128.6	144.0	144.0
1879	104.0	150.0	160.0	200.0	106.7			
1880	104.0	150.0	160.0	200.0	106.7			
1881	104.0	150.0	160.0	200.0	106.7	135.0	144.0	144.0
1882	104.0	150.0	160.0	200.0	106.7	135.0	144.0	144.0
1883	104.0	150.0	160.0	200.0	106.7	135.0	144.0	144.0
1884	110.0	150.0	160.0	200.0	106.7	135.0	144.0	144.0
1885						135.0	144.0	144.0
1886	110.0	150.0	160.0	200.0	106.7	135.0	144.0	144.0
1887	110.0	150.0	160.0	200.0	106.7	135.0	144.0	144.0
1888	120.0	150.0	160.0	200.0	106.7	135.0	144.0	144.0
1889	120.0	150.0	160.0	200.0	106.7	135.0	144.0	144.0
1890						135.0	144.0	144.0
1891						135.0	144.0	144.0

TABLE 47.—*Relative teachers' salaries for 52 years in cities*—Continued.

Year.	Boston—concluded.		Cincinnati.					
	First assistants, grammar school.	Assistants, lowest primary schools.	Principal, high school.	Principal, district school.	Assistants, highest, district schools.	Assistants, lowest, district schools.	Principal, intermediate school.	Assistants, highest, intermediate school.
1840	.....	.....	.....	45.0	57.1	60.0	.....	.....
1841	.....	.....	.....	45.0	57.1	60.0	.....	.....
1842	.....	.....	.....	45.0	51.4	52.0	.....	.....
1843	.....	.....	.....	45.0	51.4	60.0	.....	.....
1844	.....	.....	.....	45.0	51.4	60.0	.....	.....
1845	.....	.....	.....	45.0	51.4	60.0	.....	.....
1846	.....	.....	.....	45.0	51.4	60.0	.....	.....
1847	.....	.....	57.1	50.0	57.1	64.0	.....	.....
1848	.....	.....	68.6	50.0	57.1	64.0	.....	.....
1849	80.0	.....	68.6	65.0	71.4	80.0	.....	.....
1850	.....	.....	68.6	65.0	71.4	80.0	.....	.....
1851	.....	.....	68.6	65.0	71.4	80.0	.....	.....
1852	80.0	83.3	68.6	65.0	71.4	80.0	.....	.....
1853	90.0	83.3	85.7	85.0	85.7	96.0	.....	.....
1854	.....	.....	85.7	85.0	85.7	96.0	.....	.....
1855	90.0	83.3	85.7	85.0	85.7	80.0	77.2	93.3
1856	.....	.....	85.7	85.0	85.7	96.0	77.3	93.3
1857	100.0	100.0	100.0	85.0	100.0	100.0	100.0	100.0
1858	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1859	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	100.0	85.7	89.0	90.7	92.0	87.3	93.2
1862	100.0	100.0	85.7	89.0	90.7	92.0	87.3	93.2
1863	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1864	120.0	133.3	114.3	125.0	100.0	100.0	121.2	100.0
1865	140.0	150.0	114.3	125.0	100.0	100.0	121.2	100.0
1866	140.0	150.0	138.3	158.3	166.7	133.3	159.1	100.0
1867	140.0	183.3	138.3	158.3	166.7	133.3	159.1	177.3
1868	140.0	183.3	148.6	158.3	166.7	133.3	159.1	177.3
1869	.....	.....	148.6	158.3	166.7	133.3	159.1	177.3
1870	.....	.....	148.6	158.3	166.7	133.3	159.1	177.3
1871	.....	.....	148.6	158.3	166.7	133.3	159.1	177.3
1872	.....	.....	148.6	158.3	166.7	133.3	159.1	177.3
1873	170.0	200.0	148.6	158.3	166.7	133.3	159.1	177.3
1874	.....	.....	148.6	158.3	166.7	133.3	159.1	177.3
1875	.....	.....	148.6	158.3	166.7	133.3	159.1	177.3
1876	200.0	200.0	148.6	158.3	166.7	133.3	159.1	177.3
1877	170.4	180.0	148.6	158.3	166.7	133.3	159.1	177.3
1878	216.0	168.0	148.6	158.3	166.7	133.3	159.1	177.3
1879	.....	.....	148.6	158.3	166.7	133.3	159.1	177.3
1880	.....	.....	148.6	158.3	166.7	133.3	159.1	177.3
1881	216.0	168.0	148.6	158.3	166.7	133.3	159.1	177.3
1882	216.0	168.0	148.6	158.3	166.7	133.3	159.1	177.3
1883	216.0	152.0	148.6	158.3	166.7	133.3	159.1	177.3
1884	216.0	152.0	148.6	158.3	166.7	133.3	159.1	177.3
1885	216.0	152.0	148.6	158.3	166.7	133.3	159.1	177.3
1886	216.0	152.0	148.6	158.3	166.7	133.3	159.1	177.3
1887	216.0	152.0	148.6	158.3	166.7	133.3	159.1	177.3
1888	216.0	152.0	148.6	158.3	166.7	133.3	159.1	177.3
1889	216.0	152.0	148.6	158.3	166.7	133.3	159.1	177.3
1890	216.0	152.0	148.6	158.3	166.7	133.3	159.1	177.3
1891	216.0	152.0	148.6	158.3	166.7	133.3	159.1	177.3

TABLE 47.—*Relative teachers' salaries for 52 years in cities*—Concluded.

Year.	Baltimore.									General average of all quotations.
	Principal, high school, boys'.	Assistants, high school, boys'.	Principal, grammar school, boys'.	Principal, grammar school, girls'.	Principal, primary school, boys' and girls'.	Teachers, highest grade primary school, boys' and girls'.	First assistants, grammar school, boys'.	Assistants (beginners), primary schools, boys' and girls'.	First assistants, grammar schools, girls'.	
1840	100.0	.....	83.3	70.0	.....	.....	.....	.....	66.7	68.9
1841	.....	.....	.....	.....	.....	.....	.....	.....	.....	54.0
1842	100.0	68.2	94.4	90.0	.....	.....	.....	.....	83.3	73.0
1843	.....	.....	.....	.....	.....	.....	.....	.....	83.3	57.5
1844	100.0	68.2	111.1	90.0	.....	.....	.....	50.0	83.3	71.5
1845	100.0	68.2	94.4	90.0	.....	.....	.....	100.0	83.3	74.8
1846	100.0	68.2	94.4	90.0	.....	.....	.....	100.0	83.3	74.8
1847	.....	.....	.....	.....	.....	.....	.....	100.0	83.3	70.6
1848	100.0	77.3	94.4	90.0	.....	.....	.....	150.0	83.3	81.3
1849	80.0	77.3	94.4	90.0	.....	.....	.....	150.0	83.3	84.6
1850	80.0	77.3	94.4	90.0	83.3	75.0	.....	150.0	83.3	83.8
1851	80.0	77.3	94.4	90.0	83.3	.....	.....	100.0	83.3	80.6
1852	80.0	77.3	94.4	90.0	83.3	75.0	.....	100.0	83.3	80.4
1853	80.0	77.3	94.4	90.0	83.3	75.0	.....	100.0	83.3	86.6
1854	100.0	81.8	100.0	100.0	100.0	100.0	.....	100.0	100.0	87.9
1855	100.0	81.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	91.4
1856	100.0	81.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	93.7
1857	100.0	81.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.3
1858	100.0	81.8	100.0	100.0	100.0	100.0	100.0	100.0	100.0	98.8
1859	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	99.5
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	90.8
1862	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	93.7
1863	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1864	120.0	127.3	144.4	140.0	166.7	175.0	171.4	250.0	166.7	132.3
1865	120.0	127.3	144.4	140.0	166.7	175.0	171.4	250.0	166.7	134.7
1866	146.7	163.6	166.7	180.0	233.3	250.0	200.0	400.0	233.3	166.7
1867	146.7	163.6	166.7	180.0	233.3	250.0	200.0	400.0	233.3	183.7
1868	180.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	177.9
1869	180.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	184.5
1870	180.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	186.3
1871	180.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	187.7
1872	180.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	187.5
1873	180.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	183.0
1874	180.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	187.1
1875	180.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	188.1
1876	180.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	184.0
1877	180.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	178.0
1878	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	178.2
1879	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	182.8
1880	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	182.8
1881	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	178.5
1882	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	178.5
1883	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	177.8
1884	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	177.8
1885	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	186.3
1886	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	178.1
1887	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	178.1
1888	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	178.5
1889	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	178.5
1890	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	186.3
1891	160.0	181.8	166.7	180.0	232.0	234.0	192.0	408.0	216.0	186.3

The advance was all the way from 6 per cent to 308 per cent in different instances which will be noticed in the table. However, the last-named figure is probably an error, inasmuch as it seems improbable that the figures throughout relate to the same grade of teachers. The table shows that, as a rule, there has been little change in recent years. With the table is a column giving the general average, which shows an advance of 86 per cent since 1860. The advance occurred mostly in the period between 1865 and 1870, at a time when there was a general increase in wages. Since then there has been no substantial change in the currency remuneration of teachers. Teachers' salaries, being matters of regulation by city boards rather than a free contract, can hardly be supposed to respond as readily to the changed conditions of trade and living as other professional services, and they are, therefore, only useful as throwing some light upon the subject.

In regard to the wages of teachers in rural districts it was almost impossible to get any figures which are worthy of confidence which would in any measure indicate the change which had occurred in the remuneration of teachers. The records are not very numerous. As throwing some light upon the subject, however, we have inserted in Table XIV figures giving the average salaries of male and female teachers in two Massachusetts counties of Barnstable and Franklin. These were selected as being distinctively rural communities, without large centers of population. There has been no marked increase in population in Franklin County since 1840 and in Barnstable County there has been a decrease, so that the conditions may be considered as approximately the same to-day as they were fifty years ago. It is true the figures we have given are simply average rates, and during this time the school system of these two counties, as elsewhere throughout the country, has experienced some change. Graded schools have in part taken the place of ungraded schools, and it is possible that there are to-day a larger number of teachers of better equipment than was the case in 1840. The number of male teachers is relatively much less to-day than it was in 1840, and to-day they occupy relatively higher positions in the school systems of those counties than they did in 1840. It is not probable that the average position and training of the female teacher has greatly changed. With these reserves we give in Table 48 a comparison of the salaries paid in each year with those of the year 1860. We find a very marked increase between 1840 and 1860, amounting on the average to more than 100 per cent. In the subsequent period, 1860 to 1890, the increase on the average was nearly 75 per cent, and was somewhat greater for the female teachers than for the male teachers.

TABLE 48.—*Relative teachers' salaries for 52 years, Barnstable and Franklin counties, Mass.*

Year.	Barnstable County, Mass.		Franklin County, Mass.		General average.
	Male teachers.	Female teachers.	Male teachers.	Female teachers.	
1840	49.8	32.2	57.1	38.0	44.3
1841	50.9	34.9	54.7	38.4	44.7
1842	50.9	32.7	54.3	38.9	44.2
1843	52.0	37.7	49.9	38.7	44.6
1844	51.6	39.3	50.2	37.1	44.6
1845	51.7	41.4	51.9	37.0	45.5
1846	57.1	41.6	61.4	43.7	51.0
1847	53.7	37.7	54.5	39.6	46.4
1848	56.8	42.3	53.6	48.3	50.3
1849	57.1	41.6	61.4	43.7	51.0
1850	77.9	68.5	84.9	76.4	76.9
1851	79.5	69.4	85.2	83.7	79.5
1852	80.3	67.7	88.5	83.3	80.0
1853	78.6	72.0	84.2	84.7	79.9
1854	85.1	76.1	86.2	88.4	84.0
1855	90.6	86.7	99.3	93.6	92.6
1856	95.5	93.1	88.2	97.2	93.5
1857	99.0	90.4	105.9	102.1	99.4
1858	99.4	94.7	103.0	97.0	98.5
1859	100.0	89.8	103.9	96.6	97.6
1860	100.0	100.0	100.0	100.0	100.0
1861	101.0	94.4	101.7	96.2	98.3
1862	99.5	99.1	99.5	99.3	99.4
1863	102.2	93.8	100.3	99.8	99.0
1864	105.1	97.6	105.8	103.1	102.9
1865	122.3	109.0	134.4	120.4	121.5
1866	131.6	117.8	141.3	133.4	131.0
1867	137.1	123.6	146.6	137.3	136.2
1868	141.5	137.0	142.1	144.4	141.3
1869	156.4	139.4	159.7	151.5	151.8
1870	152.6	139.6	150.9	161.3	151.1
1871	153.6	143.6	162.0	164.2	155.9
1872	148.8	150.2	157.6	169.5	156.5
1873	167.3	163.0	165.8	174.5	167.7
1874	174.9	150.6	170.3	186.9	170.7
1875	170.0	168.1	179.6	182.0	174.9
1876	165.7	167.9	152.3	183.2	167.3
1877	161.4	162.2	154.4	170.1	162.0
1878	160.8	162.9	143.1	162.1	157.2
1879	160.3	152.9	128.4	156.1	149.4
1880	155.2	154.5	120.2	148.2	144.5
1881	146.9	157.5	142.8	157.9	151.3
1882	160.7	164.8	127.7	159.4	153.2
1883	151.2	168.6	141.7	164.7	156.6
1884	158.9	176.7	146.4	161.8	161.0
1885	156.4	172.4	148.9	165.8	160.9
1886	161.7	172.5	149.4	172.2	164.0
1887	168.2	174.3	132.9	172.0	161.9
1888	164.9	178.2	134.8	174.4	163.1
1889	174.4	180.5	200.4	176.1	182.9
1890	167.4	182.4	169.6	180.3	174.9

It was observed that, with wages, teachers' salaries advanced in the years 1865–1870 and reached the highest point in the first half of the following decade. It is significant, however, and well worth our attention that the high rates of these years are currency rates, and that as currency enhanced in value until it reached par there was substantial change in the rates. It amounted, therefore, to an increase of salary, and it is as true of teachers' salaries as it is of wages, that they are higher to-day than they ever were. In war time teachers suffered even more than wage-earners from the decreased wages due to depreciated currency and the general social disturbance. A survey of Table 49, which gives relative teachers' salaries in gold, will make this clear.

TABLE 49.—*Relative teachers' salaries in gold for 52 years.*

Year.	In cities.	In Barnstable and Franklin counties, Mass.	Year.	In cities.	In Barnstable and Franklin counties, Mass.
1840	68.9	44.3	1866	119.0	92.5
1841	54.0	44.7	1867	126.5	101.2
1842	73.0	44.2	1868	128.4	102.0
1843	57.5	44.6	1869	136.1	111.9
1844	71.5	44.6	1870	153.6	124.6
1845	74.8	45.5	1871	169.6	140.8
1846	74.8	51.0	1872	171.9	143.4
1847	70.6	46.4	1873	162.4	148.8
1848	81.3	50.3	1874	168.0	153.2
1849	84.6	51.0	1875	167.2	155.5
1850	83.8	76.9	1876	163.1	148.2
1851	80.6	79.5	1877	167.6	152.5
1852	80.4	80.0	1878	175.7	155.0
1853	86.6	79.9	1879	162.8	149.4
1854	87.9	84.0	1880	162.8	144.5
1855	91.4	92.6	1881	178.5	151 3
1856	93.7	93.5	1882	178.5	153 2
1857	98.3	99.4	1883	177.8	156.6
1858	98.8	98.5	1884	177.8	161.0
1859	99.5	97.6	1885[a]	186.3	160 9
1860	100.0	100.0	1886	178.1	164 0
1861	90.8	98.3	1887	178.1	161.9
1862	91.4	97.0	1888	178.5	163.1
1863	68.9	68.2	1889	178.5	182.9
1864	85 1	66.2	1890	186.3	174.9
1865	62.3	56.2	1891	186.3	.....

SUPPLEMENTARY PRICES AND WAGES.

In order to bring the work of the committee down to as recent a date as possible a supplementary investigation both of prices and wages was ordered. This brought the work to October 1892, the result of this supplementary investigation being found in full in the following tables:

Table XXII.—Wholesale prices of commodities in October 1891, and October 1892.

Table XXIII.—Rates of wages in July 1891, and October 1892.

PRICES.

We may first consider prices. To ascertain the significance of such changes as may have occurred we have subjected the figures to the same analysis which has been used in the general investigation. Taking the prices of January 1860 as a standard of comparison we have ascertained the relative price of each article in October 1891 and October 1892, as compared with this standard. The results are embodied in the following table:

TABLE 50.—*Relative prices in October 1891 and October 1892.*

Group and article.	October—		Group and article.	October—	
	1891.	1892.		1891.	1892.
Food.			*Food*—continued.		
Beans	112.0	106.7	Bread—concluded.		
Bread:			Navy shipbread	114.3	85.7
A shipbread	125.0	100.0	Oyster crackers	80.0	80 0
B shipbread	112.5	87.5	Ship biscuits	150.0	150 0
Boston crackers	94.1	94.1	Soda crackers	100.0	80.0
Do	58.8	58.8	Butter	116.7	92.2
Do	.....	.....	Cheese	95.0	90.0
Boston crackers, extra grade	.....	.....	Coffee, Rio, fair	139.1	157.6

TABLE 50.—*Relative prices in October 1891 and October 1892*—Continued.

Group and article.	October— 1891.	October— 1892.
***Food*—concluded.**		
Eggs	80.8	86.5
Fish:		
Cod	a 275.0	200.0
Mackerel, salt, shore, No. 1	150.0	150.0
Mackerel, salt, shore, No. 2	164.7	176.5
Mackerel, salt, shore, No. 3	230.0	240.0
Flour:		
Wheat	b 78.8	61.8
Rye	126.3	93.8
Fruit:		
Apples, dried	c 135.5	58.1
Currants, Zante	64.6	64.6
Raisins	91.3	73.9
Lard	64.3	76.2
Lard, pure leaf	a 60.6	74.7
Meal, corn, yellow, kiln dried	97.6	75.9
Meat:		
Bacon, clear	a 76.0	106.8
Beef, loins	b 111.1	105.6
Beef, salt, mess	65.2	65.2
Beef, ribs	b 133.3	106.7
Ham, sugar-cured	a 122.2	130.6
Lamb	d 102.0	100.0
Mutton	b 150.0	150.0
Pork, salt, mess	74.2	74.2
Milk, fresh	b 100.0	100.0
Molasses:		
New Orleans, prime	60.4	62.3
Porto Rico, best	92.1	92.1
Rice, Carolina, prime	138.2	111.8
Salt:		
Ashton's	128.2	115.4
Ashton's Liverpool, fine	116.9	116.9
Coarse, solar	55.4	54.3
Fine, boiled	52.0	52.0
Turk's Island	130.0	130.0
Spices:		
Nutmegs	140.5	119.0
Pepper, whole, Sumatra	89.6	80.6
Starch, corn	76.5	73.5
Do	70.6	67.6
Sugar:		
Brown	b 55.4	58.0
Cut	b 52.4	53.7
Fair refining	39.7	41.4
Havana' brown	.....	.....
Refined, crushed and granulated	43.8	47.2
Tallow, prime, city, in hogsheads	48.8	43.9
Vegetables, fresh, potatoes, white	e 100.0	142.9
Do	100.0	203.8
***Cloths and clothing*.**		
Blankets, 11-4, 5 pounds to the pair:		
Cotton warp, cotton and wool filling	a 76.7	73.3
Cotton warp, all wool filling	a 82.9	78.6
Broadcloths:		
First quality, black, 54-inch, made from XXX wool	a 100.0	100.0
Second quality, black, 54-inch, made from XX wool	a 116.7	116.7
Calico, Cocheco prints	63.2	63.2
Carpets:		
Brussels, 5-frame, Bigelow	90.4	78.8
Ingrain, 2-ply, Lowell	72.0	70.8
Wilton, 5-frame, Bigelow	113.5	108.1
Cassimeres all wool:		
3-4, 7-ounce, Harris double and twist	a 78.5	78.5
***Cloths and clothing*—concluded.**		
Cassimeres all wool—concluded.		
3-4, 12-ounce Harris double and twist	a 89.0	89.0
3-4, 12-ounce, Harris silk mixed	.....	.....
Fancy, 3-4, light weight	.....	.....
Checks, black and white, all wool, 3-4, 7-ounce, Harris	.....	.....
Cotton, upland, middling	.....	.....
Denims Amoskeag	77.6	79.3
Drillings, 30-inch, Pepperell	76.8	68.0
Hides, dry, Buenos Ayres	a 55.2	51.5
Horse blankets, 6 pounds, all wool	a 81.1	81.1
Leather, harness	80.0	80.0
Print cloths:		
28-inch, 64 by 64, Metacomet	55.8	65.1
28-inch, 7 yards to the pound, standard	53.3	62.2
Shawls, standard, 72 by 144 inches, weighing 42 ounces, made of XX Ohio fleece wool	a 95.0	93.1
Sheetings, brown, 4-4, Atlantic A	83.1	75.0
Shirtings, bleached, 4-4, New York Mills	68.5	66.8
Sole leather, first quality, medium weight, Buenos Ayres	a 87.5	82.7
Tickings, Amoskeag A. C. A	69.1	69.1
Wool:		
Ohio, medium fleece, scoured	.....	.....
Ohio, fine fleece, scoured	.....	.....
***Fuel and lighting*.**		
Candles, best adamantine	44.4	44.4
Coal, anthracite:		
Chestnut	130.2	147.6
Egg	105.3	115.8
F. lump	96.0	106.7
Grate	97.3	108.1
Pea	100.0	91.7
S. lump	96.0	106.7
Stove	109.0	121.8
Coal, bituminous	65.0	65.0
Matches, 8-card	77.1	81.3
***Metals and implements*.**		
Anvils, domestic	a 118.5	111.8
Bar iron, best refined, rolled	a 72.4	71.6
Butts, loose joint, cast, 3 by 3 inch	66.7	66.7
Copper, ingot	47.9	50.0
Copper, sheet	54.2	54.2
Door knobs, mineral	40.0	40.0
Iron rails, standard	.....	.....
Iron rods, for making common wood screws	a 76.0	76.0
Iron wire, market, No. 10	57.7	40.2
Lead:		
Drop shot	94.8	93.4
Pig	78.8	69.3
Do	78.7	68.0
Pipe	86.7	86.7
Locks, common:		
Mortise	60.1	60.1
Rim	54.3	54.3
Meat cutters, Hale's, No. 12	42.3	42.3
Nails, cut	a 59.4	58.5
Pig iron, No. 1, anthracite, foundery	a 70.0	70.2
Pocket knives:		
Redwood, iron lined handle, 2¼-inch, 1 blade	a 53.6	53.6

a For year 1891.
b For May 1891.
c For July 1891.
d This price is for August 1891.
e For November 1891.

TABLE 50.—*Relative prices in October 1891 and October 1892*—Continued.

Group and article.	October— 1891.	1892.
***Metals and implements*—concluded.**		
Pocket knives, standard:		
Black horn, brass G. S. handle, 3¼-inch, pen, 2 blades	a 72.0	72.0
Cocoa, brass G. S. handle, 3½-inch, 2 blades	a 60.0	60.0
Cocoa, brass G. S. handle, 3¾-inch, 2 blades	a 68.2	68.2
Cocoa, iron-lined handle, 2¾-inch, 1 blade	a 67.9	67.9
Cocoa, iron-lined handle, 3½-inch, 1 blade	a 66.7	66.7
Cocoa, iron-lined handle, 3½-inch, 1 blade	a 66.7	66.7
Cocoa, iron-lined handle, 3½-inch, 2 blades	a 57.3	57.3
Cocoa, iron-lined handle, 3¾-inch, 2 blades	a 70.0	70.0
Cocoa, iron-lined handle, 4-inch, 1 blade	a 75.0	75.0
Ebony, brass G. S. handle, 3½-inch, 2 blades	a 61.1	61.1
Ivory, brass G. S. handle, 3-inch, pen, 2 blades	a 72.7	72.7
Ivory, brass G. S. handle, 3½-inch, pen, 2 blades	a 61.8	61.8
Ivory, brass G. S. handle, 3½-inch, pen, 4 blades	a 73.7	73.7
Ivory, brass G. S. handle, 3½-inch, pen, 3 blades	a 76.5	76.5
Pearl, brass-lined handle, 3½-inch, pen, 3 blades	a 78.6	78.6
Pearl, silver-lined handle, 3½-inch, pen, 3 blades	a 81.3	81.3
Pearl, silver-lined handle, 3½-inch, pen, 4 blades	a 80.0	80.0
Redwood, iron-lined handle, 4-inch pruner, 1 blade	a 85.7	85.7
Redwood, iron-lined handle, 5-inch pruner, 1 blade	a 73.9	73.9
Stag, brass G. S. handle, 4½-inch, 3 blades	a 56.7	56.7
Stag, brass-lined handle, 3½-inch, pen, 3 blades	a 68.2	68.2
Stag, brass-lined handle, 3½-inch, pen, 3 blades	a 96.4	96.4
Stag, brass-lined handle, 3¾-inch, 4 blades	a 79.4	79.4
Stag, brass-lined handle, 4-inch, 4 blades	a 75.0	75.0
Quicksilver	115.4	100.5
Rope:		
Manila	103.0	124.2
Tarred, American	97.3	97.3
Tarred, Russian	94.7	94.7
Saws.:		
Circular, 52-inch, Disston's	a 52.8	52.8
Crosscut, 6-foot, Disston's	a 65.2	65.2
Hand, common, Disston's	a 37.5	37.5
Hand, standard, Disston's	a 97.4	90.2
Scythes	a 60.0	60.0
Shovels, Ames No. 2, cast steel, D handle, square point, back strap	72.7	72.7
Spelter, imported	133.3	119.0
Woodscrews, 1-inch, No. 10, flat head, iron	89.6	97.7
Zinc, imported, sheet	.....	.....
Lumber and building materials.		
Brick, common domestic building	125.7	131.4
Carbonate of lead, in oil	86.2	83.1
Cement, Rosendale	85.0	80.0

Group and article.	October— 1891.	1892.
***Lumber and building materials*—concluded.**		
Chestnut, lumber, in the log, not sawed	100.0	100.0
Doors, pine, unmoulded, 2 feet 4 inches by 6 feet 8 inches, 1¾ inches thick	a 78.1	84.4
Hemlock:		
Boards, first quality, 1-inch, not planed	b 142.9	128.6
Lumber, in the log, not sawed	133.3	133.3
Lime, Rockland	141.7	141.7
Maple, boards, first quality, 1-inch, rough	a 122.2	122.2
Oak, boards, white, plain, first quality, 1-inch, rough	a 318.2	318.2
Oxide of zinc, American, dry	91.7	100.0
Pine, boards:		
White, clear, 1-inch, not planed	160.0	160.6
White, clear, extra, 1-inch, not planed	b 183.3	208.3
White, clear, extra, 1-inch, not planed	b 207.1	225.9
White, common, 1-inch, not planed	b 130.4	130.1
White, common, 1-inch, not planed	b 173.0	194.6
White, culls, 1-inch, not planed	b 177.8	192.6
Pine, flooring, white, extra, 1-inch, not planed	b 128.6	142.9
Pine, lumber, in the log, not sawed	150.0	150.0
Plate glass, polished, unsilvered:		
Area 1 to 3 square feet	c 87.8	59.2
Area 3 to 5 square feet	c 76.5	51.5
Area 5 to 10 square feet	c 88.5	70.5
Area 10 to 40 square feet	c 89.2	83.2
Area 40 to 80 square feet	c 66.7	62.5
Area 80 to 100 square feet	c 57.2	53.9
Putty	66.7	58.3
Shingles, pine:		
16 inches	d 98.9	101.1
16 inches, XXX	b 151.4	162.9
16 inches, extra, XXX, cut	a 145.5	145.5
16 inches, extra, XXX, sawed	a 150.0	150.0
Spruce, boards, 1-inch	131.3	131.3
Tar, Wilmington	88.0	84.0
Turpentine	92.5	71.3
Window glass:		
American, 10x14, firsts, single	83.1	88.1
American, 10x14, thirds, single	.....	.....
French, 10x14, firsts, single	78.0	78.1
French, 10x14, thirds, single	78.2	82.0
Drugs and chemicals.		
Alcohol	435.9	414.6
Alum, lump, crystal	66.7	72.3
Bichromate of potash	48.4	50.0
Blue vitriol	32.0	31.6
Brimstone, crude	66.7	53.3
Calomel	114.7	104.4
Copperas	66.0	60.0
Flaxseed	57.4	66.3
Glycerine, refined	37.5	33.6
Linseed oil	75.4	77.2
Mercury	109.1	96.4
Muriatic acid	29.2	33.3
Opium	32.2	27.6
Quinine	21.8	21.4
Soda ash	63.2	67.4
Sugar of lead:		
Brown	83.3	80.0
White	104.3	95.7
Sulphuric acid	31.8	31.8

a For the year 1891.
b For July 1891.
c For January 1891.
d For April 1891.

TABLE 50.—*Relative prices in October 1891 and October 1892*—Concluded.

Group and article.	October—		Group and article.	October—	
	1891.	1892.		1891.	1892.
House furnishing goods.			***House furnishing goods*—conc'd.**		
Furniture:			**Tubs, wooden**	95.0	72.5
Chairs, bedroom, maple, cane seat	70.0	70.0	Do	82.8	75.9
Chairs, kitchen, common spindle	93.3	93.3	Do	82.2	68.9
Tables, kitchen, pine, 3½-foot	125.0	125.0	***Miscellaneous.***		
Glassware:			**Powder, rifle**	110.0	100.0
Bowls, 8-inch	a30.0	30.0	Do	91.7	83.3
Goblets, common	a15.6	14.4	**Rubber, Para**	120.0	121.8
Pitchers, ½-gallon	a20.6	16.9	**Soap, castile, mottled, imported**	73.5	73.5
Sets, finished	a36.6	36.6	**Starch:**		
Tumblers, ½-pint	a41.7	38.3	Ontario	100.0	95.0
Pails, wooden:			Ordinary laundry	63.2	54.1
2-hoop	78.6	75.0	Pearl	91.7	87.5
Do	81.5	75.9	Pure	92.3	88.5
3-hoop	78.1	62.5	Refined	92.9	89.3
Tubs, wooden	100.0	76.0	Silver gloss	90.3	87.1

a For the year 1891.

The foregoing table is simply a continuation of Table 1 of this report. To better appreciate what changes have taken place we have condensed the foregoing table as follows:

TABLE 51.—*Relative prices in October 1891 and October 1892, by groups.*

Group.	Number of quotations.	October 1891.		October 1892.	
		Sum of relative prices.	Average.	Sum of relative prices.	Average.
Food	53	5,421.5	102.3	5,220.1	98.5
Cloths and clothing	22	1,765.9	80.3	1,730.9	78.7
Fuel and lighting	10	920.3	92.0	989.1	98.9
Metals and implements	54	3,955.8	73.3	3,903.5	72.3
Lumber and building materials	36	4,364.7	121.2	4,385.4	121.8
Drugs and chemicals	18	1,458.2	81.0	1,418.5	78.8
House furnishing goods	15	1,031.0	68.7	931.2	62.1
Miscellaneous	10	925.6	92.6	880.1	88.0
Total	218	19,843.0	91.0	19,458.8	89.3

Each article is accounted in this table of equal importance in the averages by groups and in the total. By this method of comparison we find a decline in price in October 1892, as compared with October 1891, in all the groups except lumber and building materials and fuel and lighting. In the former the advance is less than 1 per cent, while in fuel and lighting the advance is from 92 to 98.9. An examination of the table (50) shows this to be due to the advance in anthracite coal. In the year covered by the table there was an average fall in price of all articles from 91 to 89.3.

To facilitate comparison we add the figures for January 1891 in the following table:

TABLE 52.—*Relative prices in January 1891, October 1891, and October 1892.*

Group.	January 1891.	October 1891.	October 1892.
Food	103.9	102.3	98.5
Cloths and clothing	81.1	80.3	78.7
Fuel and lighting	91.0	92.0	98.9
Metals and implements	74.9	73.3	72.3
Lumber and building materials	122.3	121.2	121.8
Drugs and chemicals	86.3	81.0	78.8
House furnishing goods	70.1	68.7	62.1
Miscellaneous	95.1	92.6	88.0
Total	92.2	91.0	89.3

As compared with the final date of our previous calculations, January 1891, the decline in price is quite marked. In only one group, fuel and lighting, is there any increase whatever. The difference in food is quite noticeable, while the average shows a decline of nearly 3 per cent.

It is needless to call attention again to the inaccuracies which may arise from the method of comparison which is pursued here. They have been dwelt upon at length in this and a former report. An elaborate account has been given of methods pursued to obtain an average of relative prices which should fairly represent the relative price to the consumer. Similar methods are applied to the figures under consideration in the table which follows:

TABLE 53.—*Relative prices of all articles, grouped according to importance, January 1891, October 1891, and October 1892.*

Date.	All articles averaged according to importance, certain expenditures being considered uniform.	All articles averaged according to importance, comprising 68.60 per cent of total expenditure.
January 1891	96.2	94.4
October 1891	95.0	92.8
October 1892	94.3	91.7

This table confirms what has already been said concerning the decline in price, which is strongly marked by both methods of calculation.

WAGES.

The investigation into wages was also continued. To test the results we have continued our former tables and present in Table 54 what is practically a continuation of Table 37 of this report. For each of the occupations represented in Table 37 we give in the following the relative wages in July 1891 and October 1892, compared with January 1860:

TABLE 54.—*Relative wages in July 1891 and October 1892.*

Establishment number.	Industry and occupation.	July 1891.	October 1892.	Establishment number.	Industry and occupation.	July 1891.	October 1892.
	Agricultural implements.				*Books and newspapers.*		
1	Foremen, woodworkers	182.9	182.9	5	Carpenters	120.1	120.1
1	Laborers	141.0	125.0	3	Compositors	128.5	122.0
1	Machinists	120.1	139.0	5	Compositors	150.2	150.2
1	Painters	120.4	131.2	6	Compositors	130.0	130.2
1	Woodworkers	128.5	138.6	3	Compositors (piece workers)	138.0	140.0
	Ale, beer, and porter.			3	Compositors' apprentices	174.8	130.2
				6	Compositors' apprentices	103.3	111.0
				5	Compositors (learners)	84.2	107.6
2	Brewers	275.0	270.0	5	Folders	127.2	120.5
2	Coopers	178.1	182.7	5	Foremen, compositors	154.3	154.3
2	Foremen, laborers	195.1	186.6	6	Foremen, compositors	130.6	140.6
2	Laborers	224.7	235.3	5	Foremen, pressmen	150.0	216.6
2	Teamsters	147.9	150.3	3	Laborers	140.3	134.4

TABLE 54.—*Relative wages in July 1891 and October 1892*—Continued.

Establishment number	Industry and occupation.	July 1891.	October 1892.
	Books and newspapers—concluded.		
5	Machinists	146.6	176.0
5	Porters	157.9	157.9
3	Press feeders	201.7	201.7
6	Press feeders	243.9	253.0
3	Pressmen	138.7	137.5
5	Pressmen	160.1	157.7
6	Pressmen	107.1	128.5
5	Press-room hands	166.0	200.0
	Building trades.		
22	Bricklayers	200.0	200.0
26	Bricklayers	200.0	202.5
22	Bricklayers' helpers	200.0	200.0
26	Bricklayers' helpers	200.9	178.6
7	Carpenters	178.6	146.6
8	Carpenters	154.1	158.0
13	Carpenters	147.7	148.5
17	Carpenters	163.1	156.2
19	Carpenters	175.0	175.0
27	Carpenters	163.4	162.9
28	Carpenters	154.3	160.0
13	Carpenters' helpers	138.0	139.8
17	Carpenters' helpers	185.4	189.9
9	Hod carriers	189.5	194.1
16	Laborers	148.3	141.1
17	Laborers	156.8	142.0
17	Machine hands	121.0	133.3
17	Machine hands' helpers	61.6	49.2
9	Masons	183.6	189.2
10	Painters	142.9	142.9
18	Painters	175.0	175.0
23	Painters	182.8	182.8
15	Painters, house	204.9	242.2
22	Plasterers	200.0	200.0
29	Plasterers	189.3	189.3
16	Plumbers	125.0	150.0
20	Plumbers	186.7	186.7
34	Roofers	209.0	194.0
21	Roofers, slate and metal	280.0	280.0
14	Steam and gas fitters	117.0	136.0
14	Steam and gas fitters' helpers	97.5	125.5
17	Teamsters	180.0	200.0
16	Tinsmiths	169.2	158.7
	Carriages and wagons.		
33	Blacksmiths	200.0	176.3
33	Blacksmiths' helpers	209.6	189.8
33	Painters	200.0	184.4
33	Wheelwrights	200.0	208.8
	City public works.		
35	Blacksmiths	166.7	166.7
35	Blacksmiths' helpers	160.0	200.0
35	Bricklayers	175.0	175.0
35	Carpenters	174.4	174.4
36	Carpenters	150.0	150.0
36	Engineers	129.9	136.5
36	Engineers, assistant	178.0	164.4
36	Firemen	165.2	186.4
35	Foremen, laborers	200.0	203.8
34	Foremen, laborers	142.9	151.1
35	Gardeners	153.8	153.8
34	Laborers	151.7	153.7
35	Laborers	176.0	176.0
36	Laborers	148.5	134.6
37	Laborers	120.0	123.2
36	Machinists	195.7	196.0
35	Masons	175.0	175.0
34	Masons	141.7	200.0
36	Patternmakers	200.0	200.0
35	Quarrymen	181.8	181.8
35	Stonecutters	175.0	175.0
36	Watchmen	120.7	123.3

Establishment number	Industry and occupation.	July 1891.	October 1892.
	Cotton goods.		
38	Back boys	201.9	203.8
40	Back hands	143.8	175.0
38	Balers	105.0	110.0
40	Band boys	111.4	126.6
38	Beam carriers	122.2	149.7
38	Beltmen	140.0	140.0
38	Blacksmiths	153.6	153.6
38	Boilermen	88.6	80.0
38	Card grinders	187.8	135.6
39	Card grinders	176.5	159.0
40	Card grinders	183.7	184.3
41	Card grinders	179.6	179.6
38	Card strippers	184.5	154.9
39	Card strippers	100.0	160.0
40	Card strippers	135.1	132.5
38	Carpenters	124.7	130.3
39	Carpenters	138.7	134.5
40	Carpenters	130.2	137.2
41	Carpenters	111.0	110.7
40	Cloth-room hands	153.0	156.4
38	Doffers	265.1	257.1
40	Doffers	216.4	209.8
41	Doffers	194.6	189.1
38	Doubler tenders	156.3	176.6
39	Drawers-in	200.0	256.8
41	Drawers-in	145.2	148.4
39	Drawing hands	135.7	157.1
40	Drawing hands	208.1	206.1
41	Drawing-frame tenders	180.7	180.7
40	Dressers	198.1	143.1
40	Engineers	141.7	160.0
38	Entrymen	114.1	114.1
38	Filling carriers	122.9	122.9
40	Firemen	116.6	141.3
41	Firemen	95.1	90.3
39	Foremen, carpenters	200.0	170.3
39	Foremen, machinists	228.6	220.9
39	Foremen, yard	125.0	183.8
40	Foremen, yard	210.0	210.0
40	Harness hands	209.2	169.0
38	Lap carriers	145.8	154.9
41	Lapper feeders (boys)	198.5	173.1
38	Machinists	108.0	122.4
39	Machinists	142.4	154.0
40	Machinists	115.6	107.6
41	Machinists	210.2	210.2
38	Masons	131.1	131.1
38	Master machinists	90.1	144.4
40	Master machinists	250.0	250.0
38	Oilers	272.6	203.1
38	Overseers, carding department	133.3	133.3
39	Overseers, carding department	250.0	178.8
40	Overseers, carding department	200.0	200.0
41	Overseers, carding department	128.6	128.6
38	Overseers, cloth room	150.0	150.0
39	Overseers, cloth room	177.8	171.8
40	Overseers, cloth room	281.7	281.7
39	Overseers, dressing department	297.1	276.3
38	Overseers, spinning department	133.3	133.3
39	Overseers, spinning department	275.0	205.5
40	Overseers, spinning department	160.0	160.0
38	Overseers, weaving department	193.7	193.7
39	Overseers, weaving department	250.0	290.0
40	Overseers, weaving department	222.2	222.2
41	Overseers, weaving department	171.4	171.4

TABLE 54.—*Relative wages in July 1891 and October 1892*—Continued.

Establishment number.	Industry and occupation.	July 1891.	October 1892.
	Cotton goods—concluded.		
38	Painters	126.1	165.4
39	Painters	124.1	139.0
38	Pickers	149.3	159.9
39	Pickers	140.8	142.2
40	Picking-room hands	126.7	133.5
41	Piecers, back (boys)	172.4	172.4
41	Piecers, front (boys)	156.4	141.9
38	Roller coverers	136.0	136.0
40	Room hands	157.5	196.3
40	Roving hands	234.2	226.3
38	Scrubbers	154.4	195.5
38	Second hands	145.4	142.9
39	Second hands	171.5	154.0
40	Second hands	143.1	142.4
41	Second hands	145.4	156.4
39	Section hands	216.4	200.0
41	Section hands	120.8	121.2
39	Slasher tenders	152.8	143.1
41	Slubber tenders	119.7	114.5
39	Speeders	215.4	165.4
40	Speeders	168.3	126.7
41	Speeder tenders	112.9	118.6
39	Spinners, frame	252.6	173.7
41	Spinners, frame	274.0	260.3
41	Spinners, mule	253.8	224.8
38	Spoolers	146.0	150.0
40	Spoolers	201.2	195.2
41	Spoolers	253.2	253.2
38	Sweepers	93.7	71.1
40	Sweepers	175.6	173.1
40	Teamsters	86.7	88.7
38	Third hands	169.1	163.9
39	Warpers	175.6	172.3
40	Warpers	185.6	216.1
41	Warpers	126.2	126.9
38	Waste hands	88.2	88.2
41	Watchmen	210.1	245.0
39	Watchmen	149.4	177.9
40	Watchmen	146.2	166.5
39	Weavers	226.1	187.0
41	Weavers, 3 and 4 looms	175.0	172.5
41	Weavers, 5 looms	151.6	145.2
41	Weavers, 6, 7, and 8 looms	130.7	137.5
41	Weavers, spare	183.0	200.0
38	Wheel pitmen	73.0	73.0
38	Yard hands	104.5	97.7
39	Yard hands	126.9	140.4
41	Yard hands	128.5	130.5
38	Yarn carriers	117.6	150.0
	Dry goods.		
42	Porters	125.0	125.0
42	Salesmen	259.1	201.8
42	Saleswomen	171.9	179.4
	Ginghams.		
43	Back boys	200.0	208.3
43	Boiler tenders	175.1	175.1
43	Card grinders	120.0	120.0
43	Card strippers	138.6	138.6
43	Card tenders	140.0	140.0
43	Carpenters	137.1	115.7
43	Doffers	151.1	153.3
43	Drawers-in	118.8	137.5
43	Drawing-frame tenders	163.3	166.3
43	Dressers	179.9	125.6
43	Loom fixers	121.8	118.4
43	Machinist	151.6	124.8
43	Overseers, carding department	133.3	140.0
43	Overseers, dressing department	133.3	140.0
43	Overseers, spinning department	160.0	151.2
43	Overseers, weaving department	133.3	128.3
43	Painters	142.9	119.4
43	Pickers	140.0	111.0
43	Quillers	189.5	195.6
43	Reelers	178.8	171.5
43	Second hands	154.8	153.5
43	Speeders	171.7	180.8
43	Spinners, frame	160.7	173.2
43	Warpers	187.7	150.0
43	Weavers	163.0	171.6
43	Winders	196.4	192.0
43	Yard hands	135.0	135.0
	Groceries.		
44	Salesmen	223.7	224.6
44	Teamsters	155.7	138.3
	Illuminating gas.		
47	Blacksmiths	139.9	135.6
48	Blacksmiths	150.0	150.0
47	Blacksmiths' helpers	177.8	177.8
48	Blacksmiths' helpers	165.0	162.5
47	Bricklayers	171.0	166.3
48	Bricklayers	156.4	140.7
47	Bricklayers' helpers	149.8	168.5
47	Carpenters	185.7	175.1
48	Carpenters	163.9	163.9
46	Coal handlers	150.0	150.0
47	Engineers	150.1	150.1
46	Firemen	183.5	165.0
47	Firemen	223.9	223.9
48	Firemen	178.4	172.2
47	Laborers	151.7	155.9
48	Laborers	129.5	146.0
46	Laborers, street	156.5	150.0
47	Painters	200.0	200.0
47	Pavers	200.0	200.0
45	Retortmen	135.0	137.7
47	Stablemen	180.0	156.4
48	Watchmen	181.8	141.4
	Leather.		
50	Blackers	166.5	166.5
50	Cellar hands	145.5	145.5
50	Finishers	141.0	141.0
50	Flatteners	164.4	164.4
50	Glossers	200.4	200.4
50	Setters-out	142.9	142.9
50	Splitters	130.7	130.7
50	Stuffers	153.5	153.5
50	Table hands	145.5	145.5
50	Whiteners	156.5	156.5
	Lumber.		
53	Salesmen	166.7	166.7
53	Teamsters	148.6	140.9
53	Yard hands	160.7	153.8
	Metals and metallic goods.		
54	Blacksmiths	139.6	133.3
56	Blacksmiths	200.0	178.6
57	Blacksmiths	151.8	148.2
61	Blacksmiths	175.0	116.0
65	Blacksmiths	135.0	137.5
67	Blacksmiths	133.3	152.1
68	Blacksmiths	184.0	162.0
71	Blacksmiths	148.6	142.9
72	Blacksmiths	158.3	159.1
73	Blacksmiths	133.9	139.9
74	Blacksmiths	90.9	88.1

TABLE 54.—*Relative wages in July 1891 and October 1892*—Continued.

Establishment number.	Industry and occupation.	July 1891.	October 1892.
	***Metals and metallic goods*—continued.**		
54	Blacksmiths' helpers	115.3	122.5
57	Blacksmiths' helpers	140.0	139.5
67	Blacksmiths' helpers	205.7	205.7
68	Blacksmiths' helpers	162.9	171.4
71	Blacksmiths' helpers	165.2	163.0
72	Blacksmiths' helpers	165.7	171.4
73	Blacksmiths' helpers	140.0	145.5
74	Blacksmiths' helpers	92.9	93.9
54	Boilermakers	137.0	141.2
55	Boilermakers	176.5	184.2
57	Boilermakers	135.0	120.4
68	Boilermakers	180.6	187.6
68	Boilermakers' apprentices	206.7	208.0
54	Boilermakers' helpers	152.2	135.2
55	Boilermakers' helpers	168.7	189.1
68	Boilermakers' helpers	167.3	185.1
72	Boiler tenders	200.0	220.0
71	Carpenters	137.9	133.2
72	Carpenters	138.2	143.7
72	Coal wheelers	167.6	167.6
66	Coremakers	120.0	120.0
73	Coremakers	127.3	139.3
74	Coremakers	141.7	122.1
66	Cupolamen	156.4	156.4
71	Draughtsmen	245.5	176.0
74	Draughtsmen	168.0	176.6
54	Engineers	133.3	133.3
56	Engineers	257.5	257.5
62	Engineers	106.8	106.8
66	Engineers	225.0	250.0
74	Engineers	135.0	106.3
68	Foremen, blacksmiths	108.3	116.7
71	Foremen, blacksmiths	194.5	194.5
54	Foremen, boilermakers	133.3	133.3
68	Foremen, boilermakers	117.9	136.9
58	Foremen, furnacemen	100.0	108.3
54	Foremen, machinists	84.7	84.7
56	Foremen, machinists	100.0	100.0
58	Foremen, machinists	153.4	135.3
65	Foremen, machinists	138.8	138.8
66	Foremen, machinists	129.1	180.0
54	Foremen, moulders	130.4	130.4
56	Foremen, moulders	192.4	173.3
58	Furnacemen	119.4	129.8
57	Laborers	137.0	143.5
58	Laborers	139.3	168.5
59	Laborers	166.7	166.7
60	Laborers	100.0	106.4
61	Laborers	135.6	133.3
62	Laborers	109.6	109.6
66	Laborers	179.6	186.2
67	Laborers	179.2	169.7
71	Laborers	171.5	139.0
73	Laborers	130.0	129.5
74	Laborers	120.0	146.5
54	Machinists	139.4	138.0
56	Machinists	134.7	126.5
57	Machinists	155.6	155.9
58	Machinists	139.2	149.4
59	Machinists	150.0	143.3
60	Machinists	135.1	145.0
61	Machinists	155.0	149.8
62	Machinists	124.0	122.6
65	Machinists	145.9	137.3
66	Machinists	222.2	222.2
67	Machinists	160.1	159.4
68	Machinists	154.5	160.7
69	Machinists	167.4	164.1
70	Machinists	140.3	140.8
72	Machinists	168.7	181.5
73	Machinists	143.7	132.6
74	Machinists	175.2	147.9
56	Machinists' apprentices	122.0	156.9
57	Machinists' apprentices	70.0	97.3

Establishment number.	Industry and occupation.	July 1891.	October 1892.
	***Metals and metallic goods*—concluded.**		
68	Machinists' apprentices	125.7	156.0
69	Machinists' apprentices	150.9	145.0
54	Machinists' helpers	114.2	140.1
56	Machinists' helpers	139.4	144.2
58	Machinists' helpers	126.2	112.9
67	Machinists' helpers	137.0	139.7
68	Machinists' helpers	153.0	157.5
69	Machinists' helpers	126.8	120.4
72	Masons	130.0	137.4
72	Masons' helpers	159.6	155.4
74	Millwrights	140.0	147.0
54	Moulders	149.2	148.3
56	Moulders	143.8	153.9
57	Moulders	131.3	130.2
67	Moulders	152.4	150.3
68	Moulders	154.8	161.6
71	Moulders	165.0	150.7
73	Moulders	150.8	141.0
74	Moulders	147.1	118.8
58	Moulders, iron	145.8	160.3
56	Moulders' apprentices	160.0	151.8
68	Moulders' apprentices	170.0	136.0
54	Moulders' helpers	121.4	120.6
56	Moulders' helpers	133.0	139.5
68	Moulders' helpers	186.1	193.1
57	Painters	127.8	116.0
54	Patternmakers	146.6	153.4
56	Patternmakers	164.5	135.5
57	Patternmakers	158.6	162.0
59	Patternmakers	157.1	157.1
60	Patternmakers	125.0	120.3
67	Patternmakers	166.7	166.7
68	Patternmakers	175.2	170.2
71	Patternmakers	165.3	155.1
74	Patternmakers	179.2	189.6
68	Patternmakers' apprentices	97.7	105.3
74	Pattern-makers' helpers	107.7	101.5
57	Teamsters	163.4	149.0
58	Teamsters	159.6	186.2
66	Teamsters	150.0	150.0
60	Watchmen	140.0	133.3
66	Watchmen	175.4	175.4
67	Watchmen	176.5	176.5
68	Watchmen	160.0	160.0
61	Woodworkers	147.4	142.6
	Paper.		
75	Engineers	171.7	160.9
75	Finishers	250.4	240.0
75	Laborers	150.0	150.0
75	Machine hands	206.0	206.0
75	Paper cutters	200.0	200.0
75	Rag sorters	150.0	150.0
	Railroads.		
76	Baggagemen	105.5	105.7
76	Brakemen, freight	158.8	158.8
76	Brakemen, passenger	160.0	160.0
76	Carpenters	154.2	154.2
76	Conductors, freight	159.9	159.9
76	Conductors, passenger	120.2	120.2
76	Engineers, locomotive	163.9	163.9
76	Firemen, locomotive	170.7	177.7
76	Foremen, masons	164.0	164.0
76	Masons	136.0	135.3
76	Painters	124.3	125.7
	Spice.		
78	Grinders	185.5	213.0
78	Laborers	152.9	148.1
78	Shippers	300.0	300.0
78	Teamsters	116.7	107.3

TABLE 54.—*Relative wages in July 1891 and October 1892*—Concluded.

Establishment number.	Industry and occupation.	July 1891.	October 1892.
	Stone.		
81	Carpenters	145.5	145.5
81	Carvers	160.0	140.0
81	Engineers	133.3	133.3
79	Foremen, quarrymen	231.4	222.1
80	Foremen, quarrymen	157.6	160.5
83	Granite cutters	177.8	177.8
81	Laborers	136.4	103.6
84	Laborers	160.0	149.2
81	Marble cutters	144.5	141.5
82	Marble cutters	172.3	171.6
81	Marble polishers	134.3	133.0
82	Marble polishers	209.1	209.1
81	Marble rubbers	137.0	137.4
82	Marble rubbers	262.0	262.0
79	Quarrymen	170.8	172.5
80	Quarrymen	160.2	156.1
84	Stone cutters	201.1	200.9
81	Teamsters	133.3	133.3
	White lead.		
85	Engineers	133.3	166.7
85	Laborers	124.1	136.2
85	Watchmen	174.7	174.7
	Woollen goods.		
88	Alley boys	133.3	127.0
88	Burlers	138.9	138.9
86	Card cleaners	172.5	163.0
86	Card tenders	145.8	147.5
87	Card tenders	193.7	196.2
87	Carders	150.9	161.0
86	Carpenters	183.3	166.7
88	Cleaners	121.1	132.5
86	Drawers-in	300.8	269.4
88	Dressers	167.0	175.0
87	Dyehouse hands	179.2	186.2
88	Dyers	136.4	116.8
88	Filling carriers	148.2	147.3
88	Filling sorters	124.0	124.0
88	Finishers	126.6	126.6
88	Fullers	128.2	104.3
86	Fullers and giggers	139.3	150.6
88	Giggers	148.1	158.2
86	Handers-in	100.0	100.0
88	Handers-in	130.4	130.4
86	Loom fixers	171.6	176.0
87	Loom fixers	161.2	160.0
86	Overseers, carding department	200.0	200.0
87	Overseers, carding department	212.5	212.5
88	Overseers, carding department	285.7	285.7
86	Overseers, dyehouse	226.1	277.8
87	Overseers, dyehouse	150.0	200.0
88	Overseers, dyehouse	200.4	200.4
86	Overseers, finishing department	254.5	290.9
88	Overseers, finishing department	250.0	250.0
86	Overseers, fulling and gigging department	161.8	161.8
88	Overseers, spinning department	225.6	225.6
86	Overseers, weaving department	200.0	200.0
87	Overseers, weaving department	171.4	171.4
88	Overseers, weaving department	263.2	263.2
88	Pickers	95.0	93.8
88	Pressmen	125.0	125.0
88	Scourers	141.5	150.6
88	Second hands	149.3	165.9
88	Section hands	200.0	200.0
86	Shearers	206.1	216.8
88	Shearers	111.5	125.0
86	Sorters	136.3	183.3
86	Spookers	164.0	180.0
88	Spinners, jack	135.8	144.2
86	Spinners, jack and mule	121.9	128.6
86	Spoolers	120.0	130.8
88	Twisters	132.1	132.8
88	Washers	126.1	127.7
88	Waste sorters	148.9	148.9
86	Watchmen	125.5	127.5
88	Watchmen	152.4	152.4
86	Weavers	188.3	195.0
88	Weavers	166.7	166.2
86	Yarn carriers	268.1	234.1

The main results of the foregoing table can not be properly seen without condensation. In Table 55, which follows, we present the relative wages, averaged for each industry, and the aggregate:

TABLE 55.—*Relative wages in July 1891 and October 1892, by industries.*

Industry.	Number of quotations.	July 1891.		October 1892.	
		Sum of relative prices.	Average.	Sum of relative prices.	Average.
Agricultural implements	5	692.9	138.6	716.7	143.3
Ale, beer, and porter	5	1,120.8	224.2	1,024.9	205.0
Books and newspapers	21	3,150.5	150.0	3,420.1	162.9
Building trades	33	5,580.6	169.1	5,630.0	170.6
Carriages and wagons	4	809.6	202.4	759.3	189.8
City public works	22	3,591.0	163.2	3,700.7	168.2
Cotton goods	114	18,836.8	165.2	18,802.8	164.9
Dry goods	3	556.0	185.3	506.2	168.7
Ginghams	27	4,177.7	154.7	4,038.7	149.6
Groceries	2	389.4	194.7	357.9	179.0
Illuminating gas	22	3,679.9	167.3	3,589.0	163.1
Leather	10	1,546.9	154.7	1,546.9	154.7
Lumber	3	506.4	168.8	481.4	160.5
Metals and metallic goods	130	19,343.7	148.8	19,265.9	148.1
Paper	6	1,128.1	188.0	1,106.9	184.5
Railroads	11	1,617.5	147.0	1,625.4	147.8
Sidewalks					
Spice	4	755.1	188.8	768.4	192.1
Stone	18	3,026.6	168.1	2,949.4	163.9
White lead	3	432.1	144.0	477.6	159.2
Woollen goods	55	9,355.2	170.1	9,555.3	173.7
Total	498	80,296.8	161.2	80,313.5	161.3

The table shows very considerable fluctuations, some industries standing higher and others lower in October 1892, than in July of the previous year. In the aggregate there has been practically no change, the exact figures being 161.239 at the earlier and 161.272 at the later date. It will be remembered that previous tables closed with January 1891. On that date the average relative wages for all occupations compared was 160.7, so that while the figures for July 1891 marked an advance of but one-half of 1 per cent., those for October 1892 showed even less.

FOREIGN PRICES.

In accordance with the directions of the committee, a careful search has been made for data in foreign countries capable of comparison with the figures presented for the United States, and to this end a considerable correspondence has been carried on with prominent European statisticians. It is thought that all series of prices which by their scope on the one hand and by their duration upon the other are worthy of consideration have been collected. They form the subject of the present discussion. It is needless to say that a great mass of occasional or spasmodic price statistics was discovered. Only that could be used in this report which in form and matter approximated our tables. Any figures which did not cover a number of articles and a series of years were useless for our comparisons.

Great care has been taken to bring these figures down to date, and for this purpose it was necessary to employ special agents in Europe. It was found impossible to carry them further back than the dates given, though an effort was made in this direction. This work involved considerable difficulty, but it adds much to the value of the figures presented and could not have been omitted.

Uniformly when prices have been given in foreign countries our tables contain the equivalents in money of the United States for the measures in common use here. In all cases a reduction to measures of weight and capacity familiar in the United States has not been possible, but the exceptions to the rule are few. All new calculations of relative prices are however based upon the original figures. In quoting relative prices of others we have not departed from the figures of the original, but in new calculations we have followed our own rules as to decimals and the like.

In converting foreign money into that of the United States use has been made of the equivalents established by the United States Treasury Department.

After giving an account of the statistics of the various European countries, an attempt will be made to coördinate them with the results obtained for the United States.

ENGLAND, THE ECONOMIST PRICES.

The best known price series and calculations of relative prices are those of the Economist. This journal publishes each week a list of "trade prices current," reporting several hundred articles as their price stands on Friday of the week in question. The figures are obtained from a responsible firm or from several firms dealing in different lines of goods quoted and doing business in London and Manchester. Upon this basis the celebrated Economist index number has been built up. The prices quoted may be looked upon as reliable in view of the leading position held by the Economist and the persons from whom its information is drawn. There are evidences that this branch of the Economist's work has not always been prosecuted with equal vigor, but such periods are infrequent and short.

The first use of these figures was made by Tooke and Newmarch, who in their History of Prices, vol. 6, pp. 162 *et seq.*, published the prices of the articles in our list for the first Friday of January, April, July, and October of each year from 1851 to 1856 as well as for February 1857, the date of going to press. Almost the entire edition of this volume was destroyed in an accident. The prices are reproduced in the table which follows. For these years there were no calculations of index numbers made except for January 1851 and July 1853. In the table which we give they have been supplied.

Mr. Newmarch continued his work in communications to the Royal Statistical Society, but has nowhere given the prices for July 1858 and July 1859. These dates are omitted in our tables.

In his report in 1860 (Journal of the Statistical Society, vol. 23, p. 102), Newmarch adopts the average prices for the six years 1845–1850 as a basis upon which to calculate relative prices or index numbers. He said that these years formed a sufficiently long period, prior to the disturbances effected by the gold discoveries, to constitute a proper basis of comparison. He bases his average upon the prices at the beginning of each quarter, and each base price is therefore the average of 24 quotations.

The Economist published these prices with the index numbers based upon them for the first time in a supplement in March 1864, entitled "Commercial History and Review of 1863." From that date to the present time this series of supplements has been continued, the 30th issue appearing in February 1893, and giving a review of 1892.

Mr. Newmarch alone was responsible for the work of selecting prices

for the 47 articles in our list and the preparation of index numbers based on them, from the year 1863 until 1880, shortly before the death of that distinguished statistician. Since 1880 the figures have been prepared in the office of the Economist. From the start they have been based upon the same material, the Economist's weekly reports. When a change in the description of an article has become necessary by the disappearance from the market of the article quoted, care has been taken to substitute for it as close an equivalent as possible, after consultation with leading dealers.

In copying and comparing the figures which are given in our tables the greatest care has been exercised to prevent inaccuracies. Glaring descrepancies are sometimes observable between the price figures and the corresponding index numbers. Note especially the columns indigo, tea, and others. It has been impossible to divine the cause of these divergencies or to reconstruct the record. The figures have been given as they were found. The prices are those for the month named, the index numbers those which relate to the same months. I am forced to the conclusion that the numbers were not invariably based upon the prices, and that in certain cases Mr. Newmarch used subsidiary information in the construction of his relative prices, of which he has left no record and given no clew.

This rendered the completion of the tables a work of exceeding difficulty. We have, however, endeavored so far as possible to follow the methods of the original in preparing the missing numbers. We have, however, indicated these calculations of our own by the use of a different type. Furthermore, we have reduced the total to a simple basis of comparison, one hundred, as well as giving the aggregate of the relative prices as is done by the Economist.

The figures for July 1892 and January 1893 were furnished shortly before their publication in the supplement to the Economist, through the courtesy of Mr. Edward Johnstone, the editor of that journal.

We give in the following the Economist prices and the Economist index number as usually quoted for the January prices:

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures.*

Date.	Colonial and tropical produce (food).									
	1. Coffee: Jamaica, ordinary to fine ordinary.				2. Sugar: British plantation, brown.				3. Sugar: Bengal, good yellow and white.			
	Per 112 pounds.		Per pound.		Per 112 pounds.		Per pound.		Per 112 pounds.		Per pound.	
	s. d.	s. d.			s. d.	s. d.			s. d.	s. d.		
1845–1850.....	44 0	@ 54 0	$0.096	@ $0.117	28 0	@ 30 0	$0.061	@ $0.065	36 0	@ 49 0	$0.078	@ $0.106
1851—Jan.....	53 0	58 0	.115	.126	26 0	28 0	.056	.061	34 0	46 0	.075	.100
July....	43 0	46 0	.093	.100	23 0	24 0	.050	.052	32 0	43 0	.070	.093
1852—Jan.....	44 0	47 6	.096	.103	18 0	21 0	.039	.046	26 0	40 0	.056	.087
July....	43 0	46 6	.093	.101	17 0	21 0	.037	.046	25 0	39 0	.054	.085
1853—Jan.....	48 0	59 0	.104	.128	21 0	25 0	.046	.054	27 0	32 0	.059	.070
July....	50 0	58 0	.109	.126	20 0	23 0	.043	.050	27 0	31 0	.059	.067
1854—Jan.....	53 0	60 0	.115	.130	21 6	25 0	.047	.054	28 6	32 0	.062	.070
July....	52 0	60 0	.113	.130	18 6	21 6	.040	.047	26 0	28 6	.056	.062
1855—Jan.....	49 0	58 0	.106	.126	17 0	19 6	.037	.042	24 6	29 0	.053	.063
July....	58 0	61 0	.115	.133	19 0	20 6	.041	.045	23 6	27 0	.051	.059
1856—Jan.....	54 0	63 0	.117	.137	29 0	32 6	.063	.071	33 0	38 0	.072	.083
July....	54 0	62 0	.117	.135	26 0	28 6	.056	.062	31 0	33 6	.067	.073
1857—Jan.....	58 0	67 0	.126	.146	36 0	40 0	.078	.087	38 0	40 0	.083	.087
July....	68 0	80 0	.148	.174	40 0	44 0	.087	.096	45 0	48 0	.098	.104
1858—Jan.....	50 0	62 0	.109	.135	23 0	26 0	.050	.056	33 6	36 6	.073	.079
1859—Jan.....	56 0	71 0	.122	.154	22 0	26 0	.048	.056	32 6	35 0	.071	.076

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures*—Continued.

Date.	Colonial and tropical produce (food).									
	1. Coffee: Jamaica, ordinary to fine ordinary.				2. Sugar: British plantation, brown.				3. Sugar: Bengal, good yellow and white.			
	Per 112 pounds.		Per pound.		Per 112 pounds.		Per pound.		Per 112 pounds.		Per pound.	
	s. d.	s. d.			s. d.	s. d.			s. d.	s. d.		
1860—Jan.....	58 0 @	71 0	$0.126 @	$0.154	22 0 @	26 0	$0.048 @	$0.056	31 0 @	33 6	$0.067 @	$0.073
July....	63 0	72 0	.137	.156	21 0	25 0	.046	.054	29 6	32 0	.064	.070
1861—Jan.....	63 0	70 0	.137	.152	23 0	27 6	.050	.060	29 0	32 0	.063	.070
July....	64 0	74 0	.139	.161	19 0	23 0	.041	.050	28 0	30 6	.056	.066
1862—Jan.....	70 0	80 0	.152	.174	18 0	23 0	.039	.050	28 0	31 6	.061	.068
July....	74 0	85 0	.161	.185	17 0	22 0	.037	.048	26 0	29 6	.056	.064
1863—Jan.....	72 0	85 0	.156	.185	17 6	22 0	.038	.048	25 0	30 0	.054	.065
July....	74 0	88 0	.161	.191	16 0	20 6	.035	.045	24 0	27 0	.052	.059
1864—Jan.....	70 0	79 0	.152	.172	25 0	29 0	.054	.063	32 0	35 0	.070	.076
July....	70 0	81 0	.152	.176	28 0	30 0	.061	.065	33 0	38 0	.072	.083
1865—Jan.....	74 0	84 0	.161	.182	18 6	21 6	.040	.047	24 0	30 0	.052	.065
July....	76 0	88 0	.165	.191	19 0	23 0	.041	.048	25 0	29 0	.054	.063
1866—Jan.....	70 0	85 0	.152	.185	22 6	24 6	.049	.053	27 0	30 0	.059	.065
July....	62 0	76 0	.135	.165	16 0	20 0	.035	.043	23 0	26 0	.050	.056
1867—Jan.....	65 0	81 0	.141	.176	19 6	22 0	.042	.048	24 6	28 0	.053	.061
July....	63 0	81 0	.137	.176	22 0	28 0	.048	.061	25 6	31 0	.055	.067
1868—Jan.....	58 0	80 0	.126	.174	23 6	26 0	.051	.056	25 6	31 0	.055	.067
July....	54 0	76 0	.117	.165	23 6	26 0	.051	.056	25 0	28 0	.054	.061
1869—Jan.....	52 0	72 0	.113	.156	23 0	27 0	.050	.059	24 0	29 0	.052	.063
July....	55 0	76 0	.119	.165	26 0	30 0	.056	.065	25 0	30 0	.054	.065
1870—Jan.....	55 0	76 0	.119	.165	27 0	32 0	.059	.070	27 0	32 0	.059	.070
July....	52 0	75 0	.113	.163	24 6	30 0	.053	.065	27 0	32 0	.059	.070
1871—Jan.....	50 0	78 0	.109	.169	26 0	32 0	.056	.070	28 0	32 0	.061	.070
July....	55 0	75 0	.119	.163	28 0	32 0	.061	.070	25 0	27 0	.054	.059
1872—Jan.....	67 0	75 0	.146	.163	29 0	32 0	.063	.070	27 0	31 0	.059	.067
July....	74 0	84 0	.161	.182	29 0	33 0	.063	.072	28 0	30 0	.061	.065
1873—Jan.....	80 0	88 0	.174	.191	26 0	30 0	.056	.065	23 0	27 0	.050	.059
July....	85 0	94 0	.185	.204	25 0	29 0	.054	.063	23 0	27 0	.050	.059
1874—Jan.....	108 0	120 0	.235	.261	23 0	27 0	.050	.059	21 0	26 0	.046	.056
July....	92 0	100 0	.200	.217	22 6	27 6	.049	.060	20 0	24 0	.043	.052
1875—Jan.....	83 0	87 0	.180	.189	24 0	27 0	.052	.059	21 6	24 6	.047	.053
July....	84 0	92 0	.182	.200	22 0	25 6	.048	.055	20 0	23 0	.043	.050
1876—Jan.....	88 0	92 0	.191	.200	21 6	24 0	.047	.052	19 0	22 0	.041	.048
July....	78 0	83 0	.169	.180	20 6	25 6	.044	.055	18 0	21 6	.039	.047
1877—Jan.....	80 0	94 0	.174	.204	31 0	36 0	.067	.078	27 6	32 0	.060	.070
July....	82 0	94 0	.178	.204	30 0	34 6	.065	.075	26 6	30 0	.058	.065
1878—Jan.....	84 0	95 0	.182	.206					18 0	24 0	.039	.052
July....	72 0	87 0	.156	.189	19 6	22 0	.042	.048	20 0	24 0	.043	.052
1879—Jan.....	59 0	82 0	.128	.178	17 0	20 6	.037	.045	19 0	23 0	.041	.050
July....	55 0	75 0	.119	.163	14 0	18 0	.030	.039	18 0	22 0	.039	.048
1880—Jan.....	68 0	80 0	.148	.174	20 6	24 6	.045	.053	21 6	26 0	.047	.056
July....	58 0	71 0	.126	.154	19 6	23 6	.042	.051	20 0	24 0	.043	.052
1881—Jan.....	55 0	65 0	.119	.141	18 6	21 6	.040	.047	19 0	23 0	.041	.050
July....	48 0	63 0	.104	.137	20 0	24 0	.043	.052	21 0	26 0	.046	.056
1882—Jan.....	43 0	55 0	.093	.119	19 6	22 6	.042	.049	21 6	25 0	.047	.054
July....	37 0	50 0	.080	.109	18 6	22 6	.040	.049	21 0	24 0	.046	.052
1883—Jan.....	34 0	45 0	.074	.098	16 6	20 0	.036	.043	19 0	22 0	.041	.050
July....	36 0	50 0	.078	.109	17 6	22 0	.038	.048	20 0	23 0	.043	.050
1884—Jan.....	44 0	60 0	.096	.130	16 6	19 0	.036	.041	18 0	22 0	.039	.048
July....	40 0	52 0	.087	.113	11 0	14 0	.024	.030				
1885—Jan.....	40 0	52 0	.087	.113	9 6	12 0	.021	.026				
July....	37 0	46 0	.080	.100	14 0	15 6	.030	.034				
1886—Jan.....	28 0	46 0	.063	.100	13 6	15 6	.029	.034				
July....	35 0	45 0	.076	.098	11 6	13 0	.025	.028				
1887—Jan.....	60 0	70 0	.130	.152	10 0	22 0	.022	.026				
July....	84 0	90 0	.182	.196	10 0	11 0	.022	.024				
1888—Jan.....	78 0	85 0	.169	.185	13 6	15 0	.029	.033				
July....	62 0	72 0	.135	.156	11 6	13 6	.025	.029				
1889—Jan.....	79 0	90 0	.172	.196	14 0	15 0	.030	.033				
July....	74 0	82 0	.161	.178	18 0	23 0	.039	.050				
1890—Jan.....	87 0	95 0	.189	.206	11 6	13 0	.025	.028	11 6		.025	
July....	90 0	96 0	.196	.209	12 0	13 6	.026	.029	11 4½		.025	
1891—Jan.....	79 0	90 0	.172	.196	12 0	13 6	.026	.029	12 4½		.027	
July....	81 0	88 0	.176	.191	13 0	14 6	.028	.032	13 4½		.029	
1892—Jan.....	86 6	95 0	.188	.206	12 6	16 6	.027	.036	14 2½		.031	
July....	78 0	90 0	.169	.196	10 6	14 6	.022	.032	12 1½		.028	
1893—Jan.....	90 0	95 0	.174	.206	11 6	14 6	.025	.032	14 3	14 4½	.031	.031

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures*—Continued.

Date.	Colonial and tropical produce (food).											
	4. Rum: Jamaica, 15 to 25 O. P.				5. Tea: Congou, middling common to fair good.				6. Tobacco: Virginia leaf.			
	Per gallon.		Per gallon.		Per pound.		Per pound.		Per pound.		Per pound.	
	d.	d.			d.	d.			d.	d.		
1845-1850	34 @	38	$0.574 @	$0.642	9½		$0.188		4½		$0.091	
1851—Jan	30	32	.507	.541	12		.242		4½ @	10	.091 @	$0.203
July	30	32	.507	.541	10½		.208		4½	10	091	.203
1852—Jan	26	28	.439	.473	7 @	9	.142 @	$0.183	2½	7½	.051	.152
July	24	26	.405	.439	6½	8½	.132	.172	2½	6	.051	.122
1853—Jan	32	34	.541	.574	10½		.213		2½	7	.051	.142
July	32	34	.541	.574	12		.243		2½	7½	.051	.152
1854—Jan	42	46	.710	.777	14	14½	.284	.294	2½	8	.051	.162
July	36	40	.608	.676	11	12	.223	.243	2½	8	.051	.162
1855—Jan	50	56	.845	.946	9½	11	.193	.223	4	8½	.081	.172
July	42	45	.710	.760	8½	8½	.172	.177	4	8½	.081	.172
1856—Jan	48	52	.811	.878	9½	10	.198	.213	4	8½	.081	.172
July	36	39	.608	.659	9½	10	.193	.203	4	8½	.081	.172
1857—Jan	44	46	.743	.777	13		.264		8	11	.162	.223
July	52	56	.878	.946	15		.304		8	11	.162	.223
1858—Jan	44	48	.743	.811	13		.264		7½	10	.152	.203
1859—Jan	36	40	.608	.676	11		.223		5	10	.101	.203
1860—Jan	38	42	.642	.710	15		.304		5	8½	.101	.172
July	38	42	.642	.710	17	17½	.345	.355	4	8	.081	.162
1861—Jan	36	40	.608	.676	13½	14½	.274	.294	4	8	.081	.162
July	32	34	.541	.574	11	11½	.223	.233	4	9	.081	.183
1862—Jan	30	32	.507	.541	11½	12	.233	.243	6	11	.122	.223
July	26	28	.439	.473	11	12	.223	.243	6	12	.122	.243
1863—Jan	24	26	.405	.439	11½	12	.233	.243	14	15	.284	.304
July	24	26	.405	.439	11	12	.223	.243	14	15	.284	.304
1864—Jan	26	28	.439	.473	11	12	.223	.243	14	15	.284	.304
July	28	30	.473	.507	9½	11	.193	.223	14	15	.284	.304
1865—Jan	32	34	.541	.574	9½	10½	.193	.213	.....	.....	.....	.....
July	32	34	.541	.574	9	11	.183	.223	5	12	.101	.243
1866—Jan	32	34	.541	.574	12	14	.243	.284	5	12	.101	.243
July	30	32	.507	.541	12	14	.243	.284	5	12	.101	.243
1867—Jan	28	30	.473	.507	9½	10½	.193	.213	7	11	.142	.223
July	30	32	.507	.541	5½	30	.112	.608	7	11	.142	.223
1868—Jan	30	32	.507	.541	5	28	.101	.568	7	11	.142	.223
July	28	30	.473	.507	10	32	.203	.649	7	11	.142	.223
1869—Jan	26	28	.439	.473	7	32	.142	.649	5	10	.101	.203
July	26	28	.439	.473	7	24	.142	.487	5	10	.101	.203
1870—Jan	30	32	.507	.541	6½	32	.132	.649	5	10	.101	.203
July	32	34	.541	.574	5	28	.101	.568	6	9	.122	.183
1871—Jan	34	36	.574	.608	5	32	.101	.649	6	8	.122	.162
July	34	36	.574	.608	6	28	.122	.568	6½	8	.132	.162
1872—Jan	40	42	.676	.710	6	30	.122	.608	6½	10½	.132	.213
July	40	42	.676	.710	6	30	.122	.608	6½	11	.132	.223
1873—Jan	40	42	.676	.710	6	30	.122	.608	6½	11	.132	.223
July	41	43	.693	.726	8	9	.162	.183	6	11	.122	.223
1874—Jan	49	50	.828	.845	10	12	.203	.243	5½	11	.111	.223
July	46	48	.777	.811	9½	14	.193	.284	4	12	.081	.243
1875—Jan	44	46	.743	.777	9	13	.183	.264	6	17	.122	.345
July	41	46	.693	.777	10	12	.203	.243	6	17	.122	.345
1876—Jan	41	46	.693	.777	9½	12	.193	.243	6	17	.122	.345
July	38	40	.642	.676	8	11	.162	.223	5	18	.101	.365
1877—Jan	38	40	.642	.676	8	14	.162	.284	5	14	.101	.284
July	.....	.....	.....	.....	7	9	.142	.183	5	12	.101	.243
1878—Jan	.....	.....	.....	.....	9	12	.183	.243	5	12	.101	.243
July	28	30	.473	.507	8	15	.162	.304	5	12	.101	.243
1879—Jan	30	32	.507	.541	7½	13	.152	.264	4	10	.081	.203
July	32	36	.541	.608	7½	17	.152	.345	4	10	.081	.203
1880—Jan	40	42	.676	.710	11	15	.223	.304	4½	11½	.091	.233
July	30	33	.507	.558	7½	13	.157	.264	4½	11½	.091	.233
1881—Jan	31	33	.524	.558	7½	11	.152	.223	4½	10	.091	.203
July	40	44	.676	.743	7	10	.142	.203	4	10	.081	.203
1882—Jan	45	48	.760	.811	6	10½	.122	.213	6	15	.122	.304
July	34	38	.574	.642	5	12	.101	.243	6	17	.122	.345
1883—Jan	33	38	.558	.642	5	9	.101	.183	5	17	.101	.345
July	30	36	.507	.608	5	8	.101	.162	4	15	.081	.304
1884—Jan	30	36	.507	.608	7	10	.142	.203	4	15	.081	.304
July	27	33	.456	.558	5	9	.101	.183	4	15	.081	.304
1885—Jan	28	34	.473	.574	5½	9	.112	.183	5½	15	.112	.304
July	34	38	.574	.642	6½	8	.132	.162	5½	15	.112	.304
1886—Jan	33	35	.558	.591	7½	10	.147	.203	5	13½	.101	.274
July	30	33	.507	.558	7½	10	.152	.203	5½	14	.112	.284
1887—Jan	34	36	.574	.608	5½	8	.112	.162	5	13	.101	.264
July	30	33	.507	.558	6½	9	.127	.183	4½	14	.091	.284

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures*—Continued.

Date.	Colonial and tropical produce (food).											
	4. Rum: Jamaica, 15 to 25 O. P.				5. Tea: Congou, middling common to fair good.				6. Tobacco: Virginia leaf.			
	Per gallon.		Per gallon.		Per pound.		Per pound.		Per pound.		Per pound.	
	d.	d.			d.	d.			d.	d.		
1888—Jan.	27	@ 30	$0.456	@ $0.507	4½	@ 7½	$0.091	@ $0.152	6	@ 16	$0.122	@ $0.324
July	25	29	.422	.490	7½	11	.147	.223	5	16	.101	.324
1889—Jan.	25	29	.422	.490	4	9	.081	.183	4½	16	.091	.324
July	25	28	.422	.473	4	7	.081	.142	4½	16	.091	.324
1890—Jan.	31	33	.524	.558	4	7½	.081	.152	4	16	.081	.324
July	32	34	.541	.574	4½	8	.086	.162	4	18	.081	.365
1891—Jan.	33	35	.558	.591	5	8	.101	.162	4	18	.081	.365
July	43	45	.726	.760	5½	7	.112	.142	4	18	.081	.365
1892—Jan.	42	44	.710	.743	4½	6½	.096	.132	4	18	.081	.365
July	28	31	.473	.524	4½	6½	.091	.132	4	18	.081	.365
1893—Jan.	28	30	.473	.507	5½	7	.112	.142	4	17	.081	.345

Date.	Colonial and tropical produce (food).				Wheat (England and Wales) and potatoes (Borough).			
	7. Butter: Waterford.				8. Wheat: Gazette price.		9. Potatoes: good English.	
	Per 112 pounds.		Per pound.		Per 8 bushels.	Per bushel.	Per 2,240 pounds.	Per bushel.
	s.	s.			s. d.		s. d.	
1845–50	82		$0.178		53 0	$1.563		
1851—Jan.	80		.174		38 1	1.123		
July	72	@ 74	.156	@ $0.161	42 11	1.265		
1852—Jan.	72	74	.156	.161	38 4	1.130		
July	74	80	.161	.174	40 10	1.204		
1853—Jan.	80	86	.174	.187	46 0	1.356		
July	84		.182		44 11	1.324		
1854—Jan.	104		.226		80 2	2.364		
July					73 1	2.155		
1855—Jan.	104		.226		72 6	2.138		
July	100		.217		76 6	2.256		
1856—Jan.	104	108	.226	.235	76 6	2.256		
July	104		.226		76 1	2.243		
1857—Feb.	112		.243		58 1	1.713		
July	100		.217		63 1	1.860		
1858—Jan.	110		.239		48 7	1.432		
1859—Jan.	105		.228		40 6	1.194		
1860—Jan.	105		.228		44 2	1.302		
July					58 5	1.723		
1861—Jan.	112	116	.243	.252	53 7	1.580		
July	107		.232		51 0	1.504		
1862—Jan.	112		.243		62 1	1.831		
July	100		.217		56 7	1.668		
1863—Jan.	104	106	.226	.230	45 10	1.351		
July					46 11	1.383		
1864—Jan.	105		.228		39 10	1.175		
July	105		.228		40 9	1.201		
1865—Jan.	119		.259		37 10	1.115		
July	123		.267		41 3	1.216		
1866—Jan.	123		.267		46 3	1.364		
July	123		.267		54 6	1.606		
1867—Jan.	115		.250		60 2	1.895	110 0	$0.717
July	115		.250		64 10	1.912		
1868—Jan.	115		.250		67 4	1.985		
July	115		.250		67 7	1.993		
1869—Jan.	136		.295		50 11	1.501	110 0	.717
July	120		.261		47 9	1.408		
1870—Jan.	120		.261		43 8	1.288		
July	120		.261		51 6	1.531		
1871—Jan.	140		.304		52 7	1.553	80 0	.531
July	145		.315		59 1	1.742		
1872—Jan.	145		.315		55 4	1.632		
July	112		.243		58 4	1.720		
1873—Jan.	117		.254		56 4	1.661	180 0	1.178
July	106		.230		59 1	1.742		
1874—Jan.	106		.230		61 8	1.818		
July	106		.230		60 8	1.789		
1875—Jan.	106		.230		44 2	1.302	110 0	.717
July					43 6	1.263		

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures*—Continued.

Date.	Colonial and tropical produce (food).		Wheat (England and Wales) and potatoes (Borough).			
	7 Butter: Waterford.		8. Wheat: Gazette price.		9. Potatoes: good English.	
	Per 112 pounds.	Per pound.	Per 8 bushels.	Per bushel.	Per 2,240 pounds.	Per bushel.
	s.		s. d.		s. d.	
1876—Jan.	.....	.....	45 3	$1.334	.....	.....
July	.....	.....	48 10	1.428	.....	.....
1877—Jan.	.....	.....	51 2	1.509	.....	.....
July	.....	.....	61 5	1.810	120 0	$0.781
1878—Jan.	.....	.....	51 8	1.523	160 0	1.043
July	83	$0.180	46 0	1.356	120 0	.781
1879—Jan	103	.224	39 7	1.167	120 0	.781
July	85	.185	42 4	1.248	105 0	.684
1880—Jan.	117	.254	46 11	1.383	145 0	.945
July	90	.196	44 7	1.315	120 0	.781
1881—Jan.	119	.259	43 4	1.278	85 0	.554
July	99	.215	45 4	1.337	75 0	.489
1882—Jan.	127	.276	44 3	1.305	85 0	.554
July	89	.193	46 11	1.383	90 0	.587
1883—Jan.	118	.256	40 11	1.206	120 0	.781
July	93	.202	42 3	1.246	160 0	1.043
1884—Jan.	112	.243	39 0	1.150	80 0	.521
July	78	.169	37 4	1.101	New	.....
1885—Jan.	100	.217	31 11	.941	70 0	.456
July	70	.152	32 8	.963	New	.....
1886—Jan.	85	.185	30 3	.892	90 0	.587
July	60	.130	31 0	.914	New	.....
1887—Jan.	105	.228	35 0	1.032	90 0	.587
July	75	.163	35 1	1.034	90 0	.587
1888—Jan.	100	.217	30 9	.907	90 0	.587
July	75	.163	31 3	.921	160 0	1.043
1889—Jan.	100	.217	30 4	.894	90 0	.587
July	.....	.....	28 7	.843	80 0	.521
1890—Jan	84	.182	29 10	.880	60 0	.391
July	65	.141	32 8	.963	50 0	.326
1891—Jan.	100	.217	32 7	.961	78 0	.508
July	75½	.165	39 6	1.165	120 0	.781
1892—Jan.	99	.215	36 10	1.086	68 1½	.444
July	83½	.182	29 10	.880	76 4	.496
1893—Jan.	96½	.210	25 8	.757	65 0	.424

Date.	Butchers' meat (Smithfield market).					
	10. Beef: inferior, middling.			11. Beef: prime, large.			12. Mutton: middling.		
	Per 8 pounds.	Per pound.		Per 8 pounds.	Per pound.		Per 8 pounds.	Per pound.	
	d. d.			d. d.			d. d.		
1845–1850	34 @ 36	$0.086 @ $0.091		38 @ 40	$0.096 @ $0.101		42 @ 46	$0.107 @ $0.117	
1851—Jan.	28 30	.071	.076	32 36	.081	.091	34 42	.086	.107
July	30 32	.076	.081	34 36	.086	.091	34 38	.086	.096
1852—Jan.	32 34	.081	.086	36 38	.091	.096	38 44	.096	.112
July	32 46	.081	.117	36 38	.091	.096	34 40	.086	.101
1853—Jan.	32 34	.081	.086	36 38	.091	.096	44 50	.112	.127
July	40 42	.101	.107	42 44	.107	.112	46 50	.117	.127
1854—Jan.	42 46	.107	.117	48 50	.122	.127	48 54	.122	.137
July	42 44	.107	.112	46 48	.117	.122	44 50	.112	.127
1855—Jan.	42 44	.107	.112	46 48	.117	.122	44 48	.112	.122
July	42 44	.107	.112	46 48	.117	.122	44 50	.112	.127
1856—Jan.	42 44	.107	.112	46 48	.117	.122	44 48	.112	.122
July	42 44	.107	.112	46 50	.117	.127	46 54	.117	.137
1857—Feb.	40 46	.101	.117	48 50	.122	.127	48 52	.122	.132
July	36 40	.091	.101	42 46	.106	.117	44 46	.112	.117
1858—Jan.	42 44	.107	.112	46 50	.117	.127	42 48	.107	.122
1859—Jan.	42 44	.107	.112	46 48	.117	.122	44 50	.112	.127
1860—Jan.	36 40	.091	.101	42 48	.107	.122	44 50	.112	.127
July	48 52	.122	.132	54 56	.137	.142	52 58	.132	.147
1861—Jan.	40 48	.101	.122	50 52	.127	.132	48 54	.122	.137
July	42 44	.107	.112	46 48	.117	.122	52 56	.132	.142
1862—Jan.	44 48	.112	.122	50 52	.127	.132	50 52	.127	.132
July	36 40	.091	.101	42 46	.107	.117	48 50	.117	.127
1863—Jan.	36 40	.091	.101	42 44	.106	.112	44 50	.112	.127
July	40 44	.101	.112	46 48	.117	.122	46 52	.117	.132
1864—Jan.	40 44	.101	.112	46 48	.117	.122	48 52	.122	.132
July	42 44	.107	.112	46 48	.117	.122	52 56	.132	.142
1865—Jan.	42 48	.107	.122	50 52	.127	.132	50 54	.127	.137
July	44 48	.112	.117	48 50	.122	.127	56 60	.142	.1[illegible]

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures*—Continued.

Date.	Butchers' meat (Smithfield market).											
	10. Beef: inferior, middling.				11. Beef: prime, large.				12. Mutton: middling.			
	Per 8 pounds.		Per pound.		Per 8 pounds.		Per pound.		Per 8 pounds.		Per pound.	
	d.	d.			d.	d.			d.	d.		
1866—Jan	36 @	48	$0.091 @	$0.122	50 @	52	$0.127 @	$0.132	52 @	62	$0.132 @	$0.157
July	48	52	.122	.132	54	56	.137	.142	64	68	.162	.172
1867—Jan	44	48	.112	.122	50	52	.127	.132	48	52	.122	.132
July	46	48	.117	.122	52	54	.132	.137	54	56	.137	.142
1868—Jan	42	44	.107	.112	46	50	.117	.127	42	48	.107	.122
July	44	46	.112	.117	48	50	.122	.127	46	50	.117	.127
1869—Jan	42	46	.107	.117	48	52	.122	.132	44	50	.112	.127
July	46	50	.117	.127	52	56	.132	.142	46	60	.117	.152
1870—Jan	44	46	.112	.117	48	56	.122	.142	48	52	.122	.132
July	48	52	.122	.132	54	56	.137	.142	52	56	.132	.142
1871—Jan	53	56	.132	.142	56	60	.142	.152	48	56	.122	.142
July	52	56	.132	.142	58	62	.147	.157	56	64	.142	.162
1872—Jan	48	54	.122	.137	54	58	.137	.147	54	60	.137	.152
July	50	52	.127	.132	58	60	.147	.152	56	60	.142	.152
1873—Jan	53	54	.132	.137	56	60	.142	.152	60	64	.152	.162
July	66	68	.167	.172	68	60	.172	.152	60	74	.152	.186
1874—Jan	53	56	.132	.142	58	60	.147	.152	60	64	.152	.162
July	50	54	.127	.137	62	64	.157	.162	48	52	.122	.132
1875—Jan	48	58	.122	.147	62	66	.157	.167	50	54	.127	.137
July	54	60	.137	.152	66	68	.167	.172	60	56	.152	.142
1876—Jan	54	60	.137	.152	60	64	.152	.162	60	66	.152	.167
July	40	48	.101	.122	60	68	.152	.172	54	58	.137	.147
1877—Jan	44	52	.112	.132	52	60	.132	.152	48	60	.122	.152
July	48	56	.122	.142	60	66	.152	.167	52	60	.122	.152
1878—Jan	42	54	.107	.137	56	60	.142	.152	48	56	.122	.142
July	40	56	.101	.142	56	64	.142	.162	52	60	.132	.152
1879—Jan	42	48	.107	.122	52	56	.132	.142	48	56	.122	.142
July	44	56	.112	.142	56	62	.142	.157	52	64	.132	.162
1880—Jan	36	48	.091	.122	52	56	.132	.142	44	50	.113	.127
July	48	56	.122	.142	58	62	.147	.157	52	64	.133	.162
1881—Jan	53	56	.132	.142	56	58	.142	.147	60	68	.152	.172
July	44	52	.112	.132	52	56	.132	.142	52	64	.132	.162
1882—Jan	44	48	.112	.122	54	58	.137	.147	42	46	.107	.117
July	38	44	.096	.112	48	60	.122	.152	56	64	.143	.162
1883—Jan	40	48	.101	.122	56	62	.142	.157	63	70	.160	.177
July	44	48	.112	.122	60	65	.152	.165	62	68	.157	.173
1884—Jan	38	44	.096	.112	56	62	.142	.157	52	60	.133	.152
July	46	50	.117	.127	56	60	.142	.152	48	60	.123	.152
1885—Jan	44	52	.112	.132	52	56	.132	.142	44	48	.113	.122
July	44	48	.112	.122	48	54	.122	.137	48	56	.122	.142
1886—Jan	28	40	.071	.101	44	48	.113	.122	40	44	.101	.113
July	28	42	.071	.107	48	52	.122	.132	48	54	.123	.137
1887—Jan	28	40	.071	.101	44	48	.112	.122	44	52	.113	.132
July	24	40	.061	.101	40	44	.101	.112	40	48	.101	.123
1888—Jan	27	48	.068	.122	48	54	.122	.137	36	44	.091	.112
July	28	32	.071	.081	46	50	.117	.127	48	50	.123	.127
1889—Jan	28	32	.071	.081	48	52	.122	.132	40	52	.101	.132
July	26	30	.066	.076	50	54	.127	.137	46	54	.117	.137
1890—Jan	30	34	.076	.086	50	52	.127	.132	46	54	.117	.137
July	33		.084		54		.137		58		.147	
1891—Jan	28		.071		56		.142		60		.153	
July	32		.071		62		.157		64		.163	
1892—Jan	32		.081		58		.147		62		.157	
July	36		.091		55		.139		53		.133	
1893—Jan	28		.071		56		.142		54		.137	

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures*—Continued.

Date.	Butchers' meat (Smithfield market).								Raw materials of manufacture.			
	13. Mutton: prime.				14. Pork: large.				15. Silk: raw Cossimbuzar.			
	Per 8 pounds.		Per pound.		Per 8 pounds.		Per pound.		Per pound.		Per pound.	
	d.	d.			d.	d.			s. d.	s. d.		
1845–1850	48 @	50	$0.122 @	$0.125	39 @	47	$0.099 @	$0.119	9 0 @	14 0	$2.190 @	$3.407
1851—Jan	44	46	.112	.117	30	42	.076	.106	9 0	17 0	2.190	4.137
July	42	44	.106	.112	28	40	.071	.101	9 0	18 0	2.190	4.380
1853—Jan	46	48	.117	.122	32	44	.081	.112	9 6	14 6	2.312	3.528
July	42	44	.106	.112	30	38	.076	.096	10 6	15 0	2.555	3.650
1853—Jan	52	54	.132	.137	32	50	.081	.125	10 6	15 0	2.555	3.650
July	52	56	.132	.142	40	44	.101	.112	12 0	15 0	2.920	3.650
1854—Jan	56	58	.142	.147	42	44	.106	.112	12 6	16 6	3.042	4.015
July	50	56	.125	.142	40	48	.101	.122	9 6	16 6	2.312	4.015
1855—Jan	50	52	.125	.132	36	44	.091	.112	9 6	15 6	2.312	3.772
July	52	56	.132	.142	40	44	.101	.112	9 6	15 0	2.312	3.650
1856—Jan	50	54	.125	.137	46	52	.117	.132	11 0	16 0	2.677	3.893
July	56	60	.142	.152	42	50	.106	.125	11 6	14 0	2.798	3.407
1857—Feb	54	58	.137	.147	44	52	.112	.132	16 0	25 0	3.893	6.083
July	48	52	.122	.132	42	48	.106	.122	17 0	30 0	4.137	7.300
1858—Jan	50	58	.125	.147	42	52	.106	.132	14 0	22 0	3.407	5.353
1859—Jan	52	56	.132	.142	36	44	.091	.112	12 0	20 0	2.920	4.867
1860—Jan	52	54	.132	.137	42	50	.106	.125	12 0	23 0	2.920	5.597
July	60	64	.152	.162	48	54	.122	.137	14 0	13 0	3.407	3.163
1861—Jan	56	60	.142	.152	48	54	.122	.137	14 0	13 0	3.407	3.163
July	56	60	.142	.152	46	50	.117	.125	14 0	17 0	3.407	4.137
1862—Jan	54	56	.137	.142	44	48	.112	.122	12 0	19 0	3.163	4.623
July	52	54	.132	.137	46	50	.117	.125	14 0	20 6	3.407	4.988
1863—Jan	54	54	.132	.137	38	46	.096	.117	14 6	19 0	3.528	4.623
July	52	56	.137	.142	50	54	.125	.137	14 0	21 0	3.407	5.110
1864—Jan	54	56	.137	.142	48	52	.122	.132	14 6	17 6	3.528	4.258
July	52	56	.132	.142	50	54	.125	.137	16 0	21 0	3.893	5.110
1865—Jan	54	58	.137	.147	52	56	.132	.142	17 0	19 0	4.137	4.623
July	66	68	.167	.172	56	60	.142	.152	18 0	23 0	4.380	5.597
1866—Jan	64	66	.162	.167	58	62	.147	.157	19 0	27 0	4.623	6.570
July	70	72	.177	.183	56	60	.142	.152	17 0	28 0	4.137	6.813
1867—Jan	54	58	.137	.147	40	48	.101	.122	19 0	23 0	4.623	5.597
July	58	60	.147	.152	46	52	.117	.132	17 0	23 0	4.137	5.597
1868—Jan	50	52	.125	.132	46	50	.117	.125	16 0	21 0	3.893	5.110
July	52	54	.132	.137	44	48	.112	.122	16 0	26 0	3.893	6.327
1869—Jan	52	56	.132	.142	48	56	.122	.142	16 6	25 6	4.015	6.205
July	58	62	.147	.157	52	64	.132	.162	18 0	23 0	4.380	5.597
1870—Jan	56	60	.142	.152	66	72	.167	.183	17 0	22 0	4.137	5.597
July	56	60	.142	.152	60	68	.152	.172	19 0	27 0	4.623	6.570
1871—Jan	58	60	.147	.152	58	60	.147	.152	17 0	25 0	4.137	6.083
July	62	66	.157	.167	52	58	.132	.147	15 0	25 0	3.650	6.083
1872—Jan	60	68	.152	.172	52	60	.132	.152	15 0	25 0	3.650	6.083
July	70	76	.177	.193	50	60	.125	.152	14 0	27 0	3.407	6.570
1873—Jan	66	68	.167	.172	54	58	.137	.147	13 6	25 6	3.285	6.205
July	76	78	.193	.198	56	62	.142	.157	13 0	25 0	3.163	6.083
1874—Jan	64	68	.162	.172	60	64	.152	.162	11 6	22 6	2.798	5.475
July	54	60	.137	.152	50	56	.125	.142	10 6	18 0	2.555	4.380
1875—Jan	58	62	.147	.157	60	66	.152	.167	10 0	16 6	2.433	4.015
July	72	78	.183	.198	60	64	.152	.162	9 0	13 0	2.190	3.163
1876—Jan	72	74	.183	.188	56	60	.142	.152	8 0	12 0	1.947	2.920
July	72	76	.183	.193	48	60	.122	.152	10 0	14 0	2.433	3.407
1877—Jan	70	76	.177	.193	56	68	.142	.172	16 0	27 0	3.893	6.570
July	64	80	.162	.203	52	60	.132	.152	14 0	20 0	3.407	4.867
1878—Jan	64	72	.162	.183	48	54	.122	.137	14 0	19 0	3.407	4.623
July	64	72	.162	.183	52	60	.132	.152	14 0	17 0	3.407	4.137
1879—Jan	58	64	.147	.162	42	48	.106	.122	11 6	14 6	2.798	3.528
July	68	76	.172	.193	50	56	.125	.142	12 0	18 6	2.920	4.502
1880—Jan	52	60	.132	.152	48	52	.122	.132	13 6	17 6	3.285	4.258
July	68	80	.172	.203	58	64	.147	.162	14 0	17 0	3.407	4.137
1881—Jan	66	72	.167	.183	60	66	.152	.167	14 0	16 0	3.407	3.893
July	66	75	.167	.190	44	52	.112	.132	14 0	17 0	3.407	4.137
1882—Jan	50	60	.125	.152	46	54	.117	.137	15 0	17 3	3.650	3.893
July	64	76	.162	.193	46	52	.117	.132	15 0	16 6	3.650	4.015
1883—Jan	75	80	.190	.203	48	52	.122	.132	13 6	15 6	3.285	3.772
July	70	74	.177	.188	50	52	.125	.132	12 0	14 0	2.920	3.407
1884—Jan	62	70	.157	.177	44	48	.112	.122	12 6	14 6	3.042	3.528
July	66	76	.167	.193	44	46	.112	.117	12 0	14 9	2.920	3.589
1885—Jan	50	64	.125	.162	36	40	.091	.101	8 0	12 6	1.947	3.042
July	60	72	.152	.183	36	40	.091	.101	8 0	12 0	1.947	2.920
1886—Jan	48	56	.122	.142	28	36	.071	.091	9 0	12 6	2.190	3.042
July	60	72	.152	.183	32	36	.081	.091	9 0	14 9	2.190	3.589
1887—Jan	54	60	.137	.152	36	44	.091	.112	14 0	16 0	3.407	3.893
July	52	64	.132	.162	28	36	.071	.091	14 0	15 6	3.407	3.772

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures*—Continued.

Date.	Butchers' meat (Smithfield market).				Raw materials of manufacture.			
	13. Mutton: prime.		14. Pork: large.		15. Silk: raw Cossimbazar.			
	Per 8 pounds.	Per pound.	Per 8 pounds.	Per pound.	Per pound.		Per pound.	
	d. *d.*		*d.* *d.*		*s.* *d.*	*s.* *d.*		
1888—Jan.	48 @ 52	$0.122 @ $0.132	32 @ 38	$0.081 @ $0.096	13 0 @	14 0	$3.163 @	$3.974
July	60 64	.152 .162	28 30	.071 .076	12 0	13 0	2.920	3.163
1889—Jan.	60 64	.152 .162	36 40	.091 .101	12 6	12 9	3.042	3.102
July	60 68	.152 .172	34 40	.086 .101	12 6	13 0	3.042	3.163
1890—Jan.	68 76	.172 .193	36 44	.091 .112	12 6	13 9	3.042	3.346
July	68	.172	40	.101	13 6	14 6	3.285	3.528
1891—Jan.	72	.183	37	.094	14 9	15 3	3.589	3.711
July	70	.177	44	.112		14 3		3.467
1892—Jan.	70	.177	44	.112		12 0		3.163
July	66	.167	52	.132		13 3		3.224
1893—Jan.	64	.162	60	.152		13 9		3.346

Date.	Raw materials of manufacture.							
	16. Flax: St. Petersburg, 12-head.		17. Linen yarn: 60's, ordinary Belfast.		18. Hemp: St. Petersburg, clean, raw.			
	Per 2,240 pounds.	Per pound.	Per bundle.	Per bundle.	Per 2,240 pounds.		Per pound.	
	£ £		*s.* *d.*		£	£		
1845–1850	41 @ 47	$0.089 @ $0.102				32		$0.070
1851—Jan.	38 46	.083 .100				20		.065
July	42 48	.091 .104				20		.065
1852—Jan.	42 48	.091 .104				31		.097
July	42 53	.091 .115				30		.095
	Friesland.							
1853—Jan.	42 53	.091 .115				30		.095
July	42 55	.091 .119				35½		.077
1854—Jan.	35 52	.076 .113			36 @	39	$0.078 @	.095
July	35 52	.076 .113				63		.137
1855—Jan.	50 65	.109 .141			58	62	.126	.135
July	50 65	.109 .141				47		.102
1856—Jan.	50 65	.109 .141				44		.096
July	50 65	.109 .141				31		.067
1857—Feb.	52	.113				37		.080
July	50 65	.109 .141				35		.076
1858—Jan.	50 65	.109 .141				29		.063
1859—Jan.	50 65	.109 .141				29		.063
1860—Jan.	65	.141				28		.061
July	65	.141				29		.063
1861—Jan.	65	.141				34		.074
July	65	.141				30		.065
1862—Jan.	65	.141				35		.076
July	65	.141				33		.072
1863—Jan.	65	.141				38½		.084
July	63 66	.137 .143			38	41	.083	.089
1864—Jan.	63 65	.137 .141			38	41	.083	.089
July	67 69	.146 .150			33	35	.072	.076
1865—Jan.	68 70	.148 .152			30	33	.065	.070
July	68 72	.148 .156			27	29	.059	.063
1866—Jan.	a 70	.152				36		.078
July	53½	.116				33½		.072
1867—Jan.	54	.117	6 0	1.460		34		.074
July	53½	.116				35		.076
1868—Jan.	53½	.116				33½		.084
July	53½	.116				37		.080
1869—Jan.	53½	.116	5 3	1.277		41		.089
July	53½	.116				35		.076
1870—Jan.	53½	.116				35		.076
July	53	.115				33		.070
1871—Jan.	53½	.116	4 0	.973		35		.076
July	53½	.116				38		.082
1872—Jan.	53½	.116				34		.074
July	53½	.116				38		.082
1873—Jan.	53½	.116	5 3	1.277		36½		.080
July	53½	.116				36½		.080
1874—Jan.	53½	.116				33½		.072
July	39½	.086				36		.078

a St. Petersburg.

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures*—Continued.

Date.	Raw materials of manufacture.							
	16. Flax: St. Petersburg, 12-head.		17. Linen yarn: 60's, ordinary Belfast.		18. Hemp: St. Petersburg, clean, raw.	
	Per 2,240 pounds.	Per pound.	Per bundle.	Per bundle.	Per 2,240 pounds.	Per pound.
	£		s. d.		£	
1875—Jan	38½	$0.084	4 5	$1.075	33½	$0.073
July	39½	.086			33½	.073
1876—Jan	45½	.099	4 3	1.034	34½	.075
July	49½	.107			37½	.081
1877—Jan	38½	.084	4 9	1.156	37	.080
July	38½	.084			36½	.079
1878—Jan	38½	.084	4 6	1.095	31½	.068
July					30	.065
1879—Jan	48½	.105	4 3	1.034	25	.054
July	46½	.101			24½	.053
1880—Jan	51½	.112	4 9	1.156	25½	.055
July	52½	.115	4 4	1.054	22½	.049
1881—Jan	29	.063	4 0	.973	23½	.052
July	30	.065	4 0	.973	24½	.053
1882—Jan	30	.065	3 10½	.943	26½	.057
July	28	.061	3 9	.913	22½	.049
1883—Jan	27½	.060	3 7½	.882	23½	.051
July	29	.063	3 7½	.882	24½	.053
1884—Jan	27	.059	3 7½	.882	29½	.064
July	26½	.058	3 4	.811	28½	.062
1885—Jan	30	.065	4 1½	1.004	29½	.064
July	32½	.071	4 3	1.034	28½	.062
1886—Jan	29½	.064	3 10½	.943	28½	.061
July	31½	.068	3 7½	.882	29½	.064
1887—Jan	32	.070	3 6	.852	28½	.061
July	28½	.062	3 3	.791		
1888—Jan	27	.059	3 3	.791		
July	27	.059	3 1½	.760	20	.043
1889—Jan	27½	.060	3 4½	.821		
July	28½	.062	3 6	.852	25½	.055
1890—Jan	23	.050	3 4½	.821	26	.056
July	23	.050	3 4½	.821		
1891—Jan	23	.050	3 9	.913		
July	24	.052	3 9	.913		
1892—Jan	24	.052	3 10½	.943	18	.039
July	24	.052	3 8½	.897	26	.056
1893—Jan	23	.050	3 8½	.897	23	.050

Date.	Raw materials of manufacture.							
	19. Wool, sheeps': English, Southdown.			20. Wool, sheeps': Port Philip, lambs and fleece.		21. Wool, sheeps': South Australian, lambs.		
	Per 240 pounds.		Per pound.	Per pound.	Per pound.	Per pound.		
	£	£		d. d.		d. d.		
1845–1850		13	$0.264	12 @ 22	$0.243 @ $0.446			
1851—Jan		14	.284	18	.365	16 @ 19	$0.324	@ $0.385
July		14½	.294			13 19	.264	.385
1852—Jan		13½	.279			11 18	.223	.365
July		15	.304			15 24	.304	.487
1853—Jan		17½	.350			14 20	.284	.406
July		19½	.395	17	.345			
1854—Jan	15½ @ 16	$0.314 @	.324			12 19	.243	.385
July	12	12½	.243 .253			12 19	.243	.385
1855—Jan	12	13½	.243 .274			13 25	.264	.507
July	14	15	.284 .304			13 25	.264	.507
1856—Jan	14½	15	.294 .304			15 30	.304	.608
July	17½	18	.355 .365			15½ 26	.314	.527
1857—Feb		20	.406			12 24	.243	.487
July		19	.385	18 26	.365 .527			
1858—Jan		13	.264	16 21	.324 .426			
1859—Jan		19	.385	18 25	.365 .507			
1860—Jan		19	.385	22 25	.446 .507			
July	19½	20	.395 .406			12½ 27	.253	.548
1861—Jan	19	19½	.385 .395	17½ 38	.355 .771	19½ 25	.395	.507
July	16	17	.324 .345	17½ 38	.355 .771	19½ 25	.395	.507
1862—Jan	16	16½	.324 .335	16 30	.324 .608	15 22	.304	.446
July	16½	17½	.335 .355	20 29	.406 .588			

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures*—Continued.

Date.	Raw materials of manufacture.											
	19. Wool, sheeps': English, Southdown.				20. Wool, sheeps': Port Philip, lambs and fleece.				21. Wool, sheeps': South Australian, lambs.			
	Per 240 pounds.		Per pound.		Per pound.		Per pound.		Per pound.		Per pound.	
	£	£			d.	d.			d.	d.		
1863—Jan.	20 @	20½	$0.406 @	$0.416	18 @	26	$0.365 @	$0.527	152 @	0½	$0.304 @	$0.416
July.	21	21½	.426	.436	15	27	.304	.548	15	22	.304	.446
1864—Jan.		22½		.456	15	28	.304	.568	14	22	.284	.446
July.	23½	24½	.477	.497	15	28	.304	.568	15	22	.304	.446
1865—Jan.	24	25	.487	.507	16	27	.324	.548	15	22	.304	.446
July.	20	21	.406	.426	17	28	.345	.568	14	20	.284	.406
1866—Jan.	21	22	.426	.446	15	24	.304	.487	15	20	.304	.406
July.		17		.345	14	27	.284	.548	15	22	.304	.446
1867—Jan.		19		.385	16	28	.324	.568	15	22	.304	.446
July.		16½		.335	16	28	.324	.568	15	22	.304	.446
1868—Jan.		14½		.294	14	26	.284	.527	12	20	.243	.406
July.		16		.324	14	26	.284	.527	13	20	.264	.406
1869—Jan.		15½		.314	16	23	.324	.466	10	16	.203	.324
July.		14		.284	11	23	.223	.466	9	16	.183	.324
1870—Jan.		13½		.274	12	25	.243	.507	9	16	.183	.324
July.		12½		.248	13	25	.264	.507	9	16	.183	.324
1871—Jan.		13		.264	11	22	.223	.446	8	15	.162	.304
July.		16		.324	14	25	.284	.507	9	12	.183	.243
1872—Jan.		21½		.436	15	27	.304	.548	12	19	.243	.385
July.		22		.446	18	30	.365	.608	15	23	.304	.466
1873—Jan.		23		.466	18	29	.365	.588	15	23	.304	.466
July.		20		.406	17	28	.345	.568	14	22	.284	.446
1874—Jan.		20½		.421	16	28	.324	.568	15	22	.304	.446
July.		15½		.319	17	29	.345	.588	15	22	.304	.446
1875—Jan.		18½		.370	17	32	.345	.649	16	26	.324	.527
July.		17		.345	16	30	.324	.608	14	22	.284	.446
1876—Jan.		17½		.355	15	29	.304	.588	14	22	.284	.446
July.		14½		.294	13	25	.264	.507	12	18	.243	.365
1877—Jan.		16½		.335	17	31	.345	.629	16	24	.324	.487
July.		14½		.294	14	28	.284	.568	14	28	.284	.568
1878—Jan.		15½		.314	14	28	.284	.568	13	20	.264	.406
July.		14½		.294	14	28	.284	.568	13	20	.264	.406
1879—Jan.		13		.264	14	24	.284	.487	13	18	.264	.365
July.		11½		.233	14	24	.284	.487	13	18	.264	.365
1880—Jan.		14½		.294	18	23	.365	.466	15	22	.304	.446
July.		15½		.314	18	23	.365	.466	15	22	.304	.446
1881—Jan.		15½		.314	17	20	.345	.406	18	21	.365	.426
July.		12½		.253	17	19	.345	.385	17	19	.345	.385
1882—Jan.		14		.284	18	19	.365	.385	17½	19	.355	.385
July.		12		.243	18	20	.365	.406	18	20	.365	.406
1883—Jan.		12		.243	18	20	.365	.406	18	20	.365	.406
July.		11½		.233	18	19	.365	.385	18	20	.365	.406
1884—Jan.		12½		.253	17	18	.345	.365	17	18	.345	.365
July.		11		.223	16	17	.324	.345	16	18	.324	.365
1885—Jan.		11½		.228	16	17	.324	.345	16	18	.324	.365
July.		10½		.213	16	17	.324	.345	16	18	.324	.365
1886—Jan.		10½		.213	16	17	.324	.345	16	18	.324	.365
July.		10½		.213	17	18	.345	.365	16	18	.324	.365
1887—Jan.		12½		.248	22	23	.446	.466	19	21	.385	.426
July.		10½		.213	22	24	.446	.487	.....	.....	.....	.....
1888—Jan.		11½		.228	21	23	.426	.466	.....	.....	.....	.....
July.		10½		.208	20	22	.406	.446	.....	.....	.....	.....
1889—Jan.		11		.223		20		.406	.....	.....	.....	.....
July.		11		.223		a 21½		a .436	.....	.....	.....	.....
1890—Jan.		12		.243		24		.487	.....	.....	.....	.....
July.		11½		.238		20½		.416		b 18½		b .375
1891—Jan.		11½		.233		20		.406		18½		.375
July.		12		.243		20½		.416		19½		.395
1892—Jan.		12		.243		17½		.360		17		.345
July.		12		.243		18½		.375		16½		.335
1893—Jan.		11½		.228		17½		.355		17½		.355

a Good Vial. scoured. b Cape scoured.

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures*—Continued.

Date.	Raw materials of manufacture.											
	22. Dyes: logwood, Jamaica.				23. Dyes: indigo, Bengal.				24. Oils: seal, pale.			
	Per 2,240 pounds.		Per pound.		Per pound.		Per pound.		Per 252 gallons.		Per gallon.	
	£	£ s. d.			£ s. d.	£ s. d.			£	£		
1845-1850	87 @	93 0	$0.010 @	$0.010	2 0 @	5 6	$0.487 @	$1.338		31½		$0.507
1851—Jan	70	80 0	.008	.009	3 0	6 10	.730	1.663		37		.595
July	65	70 0	.007	.008	2 9	6 6	.609	1.582		31		.499
1852—Jan	65	70 0	.007	.008	2 6	6 3	.608	1.521		33		.531
July	65	70 0	.007	.008	3 0	6 2	.730	1.501		35		.563
1853—Jan	80	85 0	.009	.009	4 6	7 5	1.095	1.865		35½		.571
July	105	119 0	.011	.013	4 9	7 8	1.216	1.866		33½		.539
1854—Jan		110 0		.012	5 0	8 0	1.217	1.947		43		.692
July	142	150 0	.015	.016	4 9	7 3	1.156	1.764		42		.676
1855—Jan		130 0		.014	3 6	7 6	.852	1.825		47½		.764
July	90	95 0	.010	.010	1 3	7 0	.304	1.703		53		.853
1856—Jan		110 0		.012	1 0	7 6	.243	1.825		57		.917
July		135 0		.015	1 0	7 7	.243	1.845		48½		.780
1857—Feb		110 0		.012	1 0	7 9	.243	1.886		50		.804
July		105 0		.011						46		.740
1858—Jan		105 0		.011						39		.627
1859—Jan		105 0		.011						37		.595
1860—Jan	80	85 0	.009	.009						33		.531
July	90	95 0	.010	.010					96 @	36½	$0.579 @	.587
1861—Jan	95	97 0	.010	.011						40		.644
July	95	97 0	.010	.011						40		.644
1862—Jan	120	130 0	.013	.014					40½	41	.652	.660
July	100	110 0	.011	.012								
1863—Jan	107	112 0	.012	.012						48½		.780
July	90	100 0	.010	.011					47	48	.756	.772
1864—Jan		90 0		.010						48		.772
July		90 0		.010						48		.772
1865—Jan	72	75 0	.008	.008					48	49	.772	.788
July	70	75 0	.008	.008						42		.676
1866—Jan		90 0		.010						50½		.812
July		95 0		.010						46		.740
1867—Jan	70	80 0	.008	.009	4 0	9 0	.973	2.190		46		.740
July	70	80 0	.008	.009						39		.627
1868—Jan		80 0		.009						41		.660
July		85 0		.009						36		.579
1869—Jan		95 0		.010	3 0	9 0	.730	2.190		36		.579
July		120 0		.013						39		.627
1870—Jan		120 0		.013						42		.676
July		120 0		.013						38		.611
1871—Jan		80 0		.009	3 0	9 0	.730	2.190		35		.563
July		100 0		.011						33		.531
1872—Jan		100 0		.011						37		.595
July		105 0		.011						43		.692
1873—Jan		90 0		.010	3 6	10 0	.852	2.438		40		.644
July		102 6		.011						35		.563
1874—Jan		115 0		.013						34		.547
July		106 3		.012						36		.579
1875—Jan		138 9		.015	3 6	9 0	.852	2.190		35½		.567
July		132 6		.014	3 0	8 6	.730	2.068		36		.579
1876—Jan		137 6		.015	3 0	8 0	.730	1.947		34½		.555
July		131 3		.014	2 6	8 0	.608	1.947		34		.547
1877—Jan		113 9		.012	4 6	8 9	1.095	2.129		34		.547
July		117 6		.013	3 9	7 6	.913	1.825		34½		.555
1878—Jan		112 6		.012	6 0	7 0	1.460	1.703		34½		.551
July		107 6		.012	5 8	7 2	1.379	1.744		33		.531
1879—Jan		112 6		.012	5 7	7 0	1.359	1.703		28½		.459
July		112 6		.012	5 10	7 2	1.419	1.744		27		.434
1880—Jan		132 6		.014	7 0	8 9	1.703	2.129		30½		.491
July		125 0		.014	7 9	8 3	1.886	2.007		30½		.495
1881—Jan		112 6		.012	7 0	8 1	1.703	1.967		28½		.455
July		100 0		.011	6 7	7 8	1.582	1.886		30½		.495
1882—Jan		105 0		.011	6 7	7 8	1.602	1.886		28½		.455
July		100 0		.011	6 7	7 6	1.602	1.825		33		.531
1883—Jan		105 0		.011	6 6	7 0	1.582	1.703		35½		.571
July		107 6		.012	5 4	6 0	1.298	1.460		35		.563
1884—Jan		105 0		.011	5 6	6 4	1.338	1.541		32½		.523
July		107 6		.012	5 10	6 9	1.419	1.643		29½		.475
1885—Jan		102 6		.011	5 6	6 3	1.338	1.521		27½		.443
July		97 6		.011	5 6	6 3	1.338	1.521		26½		.422
1886—Jan		96 3		.011	5 4	6 3	1.298	1.521		24		.386
July		88 9		.010	4 10	5 2	1.176	1.257		23		.370
1887—Jan		105 9		.011	4 7	5 3	1.115	1.277		20½		.330
July		103 6		.011	4 7	5 3	1.115	1.277		23½		.383

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures*—Continued.

Date.	Raw materials of manufacture.							
	22. Dyes: logwood, Jamaica.		23. Dyes: indigo, Bengal.				24. Oils: seal, pale.	
	Per 2,240 pounds.	Per pound.	Per pound.		Per pound.		Per 252 gallons.	Per gallon.
	s. d.		s. d.	s. d.			£	
1888—Jan	130 0	$0.014	4 6	@ 5 2	$1.095	@ $1.257	22½	$0.362
July	122 6	.013	4 6	5 2	1.095	1.257	21½	.346
1889—Jan	130 0	.014	4 2	5 2	1.014	1.257	23	.370
July	120 0	.013	4 3	5 3	1.034	1.277	22½	.362
1890—Jan	113 9	.012	4 2	4 10	1.014	1.176	25½	.410
July	125 0	.014	3 10	4 6	.933	1.095	26½	.426
1891—Jan	117 6	.013	4 9	5 6	1.156	1.338	26	.418
July	117 6	.013	4 9	5 0	1.156	1.217	25	.402
1892—Jan	120 0	.013	4 3	4 4	1.034	1.054	24	.386
July	122 6	.013	4 5	4 8	1.075	1.136	23	.370
1893—Jan	125 0	.014	4 5	4 8	1.075	1.136	20½	.330

Date.	Raw materials of manufacture.							
	25. Oils: olive, Levant, Gallipoli.			26. Oils: palm.			27. Oils: petroleum.	
	Per 252 gallons.		Per gallon.	Per 252 gallons.		Per gallon.	Per gallon.	Per gallon.
	£	£		£	£		d.	
1845–1850		44	$0.708		32	$0.515		
1851—Jan		43	.692		29	.467		
July		39	.627		28	.450		
1852—Jan		43	.692		27	.434		
July		46	.740		28½	.459		
1853—Jan		59½	.957		34½	.555		
July		71	1.142		36	.579		
1854—Jan		63	1.014		43	.692		
July		55	.885		47	.756		
1855—Jan		57	.917		48	.772		
July		56½	.909		41	.660		
1856—Jan		54	.869		48½	.780		
July		47	.756		38	.611		
1857—Feb		61	.981		47	.756		
July		58	.933		47	.756		
1858—Jan		51	.821		40	.644		
July		50	.804					
1859—Jan					40	.644		
July								
1860—Jan		57	.917		46	.740		
July		62	.997		45½	@ 46 $0.732 @ .740		
1861—Jan		60	.965		47	.756		
July		58	.933		44½	.716		
1862—Jan	59	@ 59½ $0.949 @ .957		43½	44	.700	.708	
July	56½	57	.909	.917	42	42½	.676	.684
1863—Jan	60½	61	.973	.981	41	41½	.660	.668
July		60	.965			36		.579
1864—Jan		58	.933		32	36	.515	.579
July		62	.997		32	36	.515	.579
1865—Jan	56	57	.901	.917	33	36	.531	.579
July		54	.869		33	37	.531	.595
1866—Jan		56½	.909			44		.708
July		60	.965			40		.644
1867—Jan		62	.997			43		.692
July		63	1.014			40		.644
1868—Jan		67	1.078			40½		.652
July		68	1.094			38		.611
1869—Jan		59	.949			41		.660
July		53	.853			41		.660
1870—Jan		53	.853			40½		.652
July		54	.869			39		.627
1871—Jan		48	.772			39	17½	$0.282
July		49	.788			37		.595
1872—Jan		54	.869			40		.644
July		49	.788			38		.611
1873—Jan		48	.772			39	23	.373
July		41	.660			39½		.631
1874—Jan		48	.772			36½		.587
July						37		.595

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures*—Continued.

Date.	Raw materials of manufacture.					
	25. Oils: olive, Levant, Gallipoli.		26. oils: Palm.		27. Oils: petroleum.	
	Per 252 gallons.	Per gallon.	Per 252 gallons.	Per gallon.	Per gallon.	Per gallon.
	£		£		d	
1875—Jan.	.....	.....	35	$0.563	9½	$0.160
July	.....	.....	34½	.555	.....	.....
1876—Jan.	.....	.....	39½	.631	11½	.194
July	45	$0.724	36¼	.583	.....	.....
1877—Jan.	48½	.780	40	.644	19½	.329
July	48¾	.784	39¼	.631	10½	.175
1878—Jan.	.....	.....	40½	.652	10¾	.184
July	39	.627	37¾	.607	9½	.160
1879—Jan.	46	.740	36½	.587	9	.152
July	49	.788	32	.515	.....	.....
1880—Jan	46	.740	36¾	.591	6½	.110
July	.....	.....	31	.499	8	.135
1881—Jan.	42	.676	32	.515	9¾	.165
July	37	.595	30¾	.495	7	.118
1882—Jan.	40	.644	32¼	.519	5¾	.097
July	38½	.619	32¾	.527	5¼	.089
1883—Jan.	36½	.587	37½	.603	7	.118
July	37	.595	38½	.619	6¼	.106
1884—Jan.	40½	.652	43½	.700	7⅜	.125
July	38½	.619	33½	.539	6¼	.106
1885—Jan.	40¾	.656	32	.515	7¼	.122
July	36	.579	30	.483	6⅝	.112
1886—Jan.	40½	.652	29	.467	6½	.110
July	38½	.619	24	.386	5⅝	.095
1887—Jan.	38½	.619	24¾	.398	5¾	.099
July	35	.563	21	.338	5⅜	.091
1888—Jan.	36½	.583	21½	.346	6⅝	.112
July	37	.595	20½	.326	5 11/16	.094
1889—Jan.	.....	.....	28½	.455	6 13/16	.115
July	33¾	.543	23½	.378	6⅝	.103
1890—Jan.	37½	.599	25½	.414	6½	.106
July	39½	.636	25¾	.414	5 7/16	.092
1891—Jan.	41⅝	.668	26½	.426	5¾	.097
July	45	.724	25	.402	5 1/16	.086
1892—Jan.	.....	.....	23¾	.382	5 1/16	.086
July	34½	.555	23	.370	4 13/16	.079
1893—Jan.	36¼	.587	26	.418	4 7/16	.075

Date.	Raw materials of manufacture.					
	28. Timber: Dantzic and Memel.		29. Timber: Canadian yellow pine.		30. Tallow: town.	
	Per load.	Per load.	Per load.	Per load.	Per 112 pounds.	Per pound.
	s. s. d.		s. d. s.		s. d.	
1845–1850.	71 @ 81 0	$17.276 @ $19.709	65 0 @ 71	$15.816 @ $17.276	.....	.....
1851—Jan.	60 70 0	14.600 17.033	55 0 60	13.383 14.600	.....	.....
July	50 65 0	12.166 15.816	50 0 60	12.166 14.600	.....	.....
1852—Jan.	45 60 0	10.950 14.600	50 0 70	12.166 17.033	.....	.....
July	52 65 0	12.653 15.816	70 0 80	17.033 19.466	.....	.....
1853—Jan.	67 77 0	16.303 18.736	70 0 85	17.033 20.683	.....	.....
July	72 80 0	17.519 19.466	70 0 85	17.033 20.683	.....	.....
1854—Jan.	70 95 0	17.033 23.116	80 0 90	19.466 21.899	.....	.....
July	65 95 0	15.816 23.116	75 0 130	18.249 31.632	.....	.....
1855—Jan.	80 95 0	19.466 23.116	65 0 95	15.816 23.116	.....	.....
July	65 93 0	15.816 22.629	55 0 65	13.383 15.816	.....	.....
1856—Jan.	70 90 0	17.033 21.899	72 0 80	17.519 19.466	.....	.....
July	60 80 0	14.600 19.466	75 0 80	18.249 19.466	.....	.....
1857—Feb.	65 85 0	15.816 20.683	80 0 95	19.466 23.116	.....	.....
July	57 80 0	13.870 19.466	75 0 85	18.249 20.683	.....	.....
1858—Jan.	57 85 0	13.870 20.683	70 0 75	17.033 18.249	.....	.....
1859—Jan.	55 70 0	13.383 17.033	65 0 75	15.816 18.249	.....	.....
1860—Jan.	55 82 0	13.383 19.953	70 0 75	17.033 18.249	.....	.....
July	50 77 6	12.166 18.858	70 0 75	17.033 18.249	.....	.....
1861—Jan.	60 85 0	14.600 20.683	70 0 75	17.033 18.249	.....	.....
July	50 85 0	12.166 20.683	70 0 75	17.033 18.249	.....	.....

TABLE 56.--*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures*—Continued.

Date.	Raw materials of manufacture.											
	28. Timber: Dantzic and Memel.					29. Timber: Canadian yellow pine.					30. Tallow: town.	
	Per load.			Per load.		Per load.			Per load.		Per 112 pounds.	Per pound.
	s.		s. d.			s. d.		s.			s. d.	
1862—Jan.	55	@	80 0	$13.383	@ $19.466	70 0	@	80	$17.033	@ $19.466		
July.	55		75 0	13.383	18.249	70 0		75	17.033	18.249		
1863—Jan.	50		75 0	12.166	18.249	80 0		95	19.466	23.116		
July.	50		75 0	12.166	18.249	85 0		95	20.683	23.116		
1864—Jan.	60		80 0	14.600	19.466	70 0		85	17.033	20.683		
July.	60		85 0	14.600	20.683	70 0		85	17.033	20.683		
1865—Jan.	60		85 0	14.600	20.683	60 0		75	14.600	18.249		
July.	50		75 0	12.166	18.249	55 0		70	13.383	17.033		
1866—Jan.	50		75 0	12.166	18.249	60 0		80	14.600	19.466		
July.	50		75 0	12.166	18.249	60 0		95	14.600	23.116		
1867—Jan.	50		75 0	12.166	18.249	60 0		90	14.600	21.899		
July.	50		75 0	12.166	18.249	60 0		90	14.600	21.899		
1868—Jan.	45		75 0	10.950	18.249	60 0		90	14.600	21.899		
July.	45		85 0	10.950	20.683	60 0		90	14.600	21.899		
1869—Jan.	40		80 0	9.733	19.466	70 0		90	17.033	21.899		
July.	40		80 0	9.733	19.466	75 0		90	18.249	21.899		
1870—Jan.	40		80 0	9.733	19.466	75 0		90	18.249	21.899		
July.	40		80 0	9.733	19.466	80 0		100	19.466	24.333		
1871—Jan.	50		100 0	12.166	24.333	80 0		100	19.466	24.333		
July.	50		95 0	12.166	23.116	85 0		105	20.683	25.549		
1872—Jan.	50		95 0	12.166	23.116	85 0		105	20.683	25.549		
July.	50		95 0	12.166	23.116	90 0		120	21.899	29.199		
1873—Jan.	50		120 0	12.166	29.199	85 0		105	20.683	25.549		
July.	50		120 0	12.166	29.199	85 0		105	20.683	25.549		
1874—Jan.	60		110 0	14.600	26.766	85 0		105	20.683	25.549		
July.	55		130 0	13.383	31.632	100 0		130	24.333	31.632		
1875—Jan.	50		90 0	12.166	21.899	110 0		130	26.766	31.632		
July.	50		80 0	12.166	19.466	110 0		120	26.766	29.199		
1876—Jan.	45		85 0	10.950	20.683	110 0		130	26.766	31.632		
July.	45		85 0	10.950	20.683	110 0		130	26.766	31.632		
1877—Jan.	50		110 0	12.166	26.766	100 0		110	24.333	26.766		
July.	50		110 0	12.166	26.766	100 0		120	24.333	29.199		
1878—Jan.	50		110 0	12.166	26.766	100 0		120	24.333	29.199		
July.	40		90 0	9.733	21.899	80 0		100	19.466	24.333		
1879—Jan.	40		110 0	9.733	26.766	85 0		95	20.683	23.116		
July.	35		85 0	8.516	20.683	60 0		80	14.600	19.466		
1880—Jan.	45		85 0	10.950	20.683	80 0		100	19.466	24.333		
July.	40		85 0	9.733	20.683	70 0		95	17.033	23.116		
1881—Jan.	45		90 0	10.950	21.899	80 0		100	19.466	24.333	36 0	$0.078
July.	45		80 0	10.950	19.466	80 0		100	19.466	24.333		
1882—Jan.	50		90 0	12.166	21.899	80 0		100	19.466	24.333	42 0	.091
July.	50		90 0	12.166	21.899	70 0		100	17.033	24.333	42 0	.091
1883—Jan.	50		90 0	12.166	21.899	70 0		100	17.033	24.333	43 6	.095
July.	45		90 0	10.950	21.899	60 0		100	14.600	24.333	42 9	.093
1884—Jan.	50		90 0	12.166	21.899	60 0		90	14.600	21.899	42 9	.093
July.	45		90 0	10.950	21.899	70 0		105	17.033	25.549	36 9	.080
1885—Jan.	40		80 0	9.733	19.466	70 0		105	17.033	25.549	35 3	.077
July.	30		80 0	7.300	19.466	55 0		100	13.383	24.333	31 6	.068
1886—Jan.	30		80 0	7.300	19.466	55 0		100	13.383	24.333	26 3	.057
July.	30		80 0	7.300	19.466	55 0		100	13.383	24.333	24 9	.054
1887—Jan.	30		80 0	7.300	19.466	50 0		90	12.166	21.899	27 0	.059
July.	30		85 0	7.300	20.683	60 0		90	14.600	21.899	23 3	.051
1888—Jan.	30		80 0	7.300	19.466	60 0		80	14.600	19.466	26 3	.057
July.	35		80 0	8.516	19.466	65 0		80	15.816	19.466	23 3	.051
1889—Jan.	40		80 0	9.733	19.466	90 0		110	21.899	26.766	34 6	.075
July.	40		70 0	9.733	17.033	90 0		110	21.899	26.766	27 9	.060
1890—Jan.	35		70 0	8.516	17.033	97 6		115	23.724	27.982	27 0	.059
July.	30		70 0	7.300	17.033	75 0		110	18.249	26.766	27 0	.059
1891—Jan.	40		75 0	9.733	18.249	75 0		110	18.249	26.766	27 0	.059
July.	40		75 0	9.733	18.249	75 0		110	18.249	26.766	27 9	.060
1892—Jan.	40		70 0	9.733	17.033	75 0		110	18.249	26.766	27 9	.060
July.	30		70 0	7.300	17.033	60 0		100	14.600	24.333	27 9	.060
1893—Jan.	30		70 0	7.300	17.033	60 0		100	14.600	24.333	27 9	.060

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures*—Continued.

Date.	Raw materials of manufacture.											
	30. Tallow: St. Petersburg, first Y. C.				31. Leather: English butts, 25–36.				32. Saltpetre: English, refined.			
	Per 112 pounds.		Per pound.		Per pound.		Per pound.		Per 112 pounds.		Per pound.	
	s.	d.	s.	d.	d.	d.			s.	d.	s.	d.
1845–1850			44	0	13 @ 23		$0.264 @ $0.466		26	0 @ 28	0	$0.056 @ $0.061
1851—Jan			38	0	12	23	.243	.466	27	0	29	0 .059 .063
July			37	6	12	23	.243	.466	25	0	28	6 .054 .062
1852—Jan			37	0	12	23	.243	.466	25	0	28	6 .054 .062
July			38	0	12	21	.243	.426	25	0	28	6 .054 .062
1853—Jan			43	0	12	21	.243	.426	24	0	29	0 .052 .063
July			49	0	14	22	.284	.446	24	0	28	0 .052 .061
1854—Jan			60	0	15	20	.304	.406	27	0	31	0 .059 .067
July			64	0	15	22	.304	.446	28	0	35	0 .061 .076
1855—Jan			64	6	15	22	.304	.446	21	6	29	0 .047 .063
July			52	0	15	22	.304	.446	22	6	31	6 .049 .068
1856—Jan			68	0	16	26	.324	.527	31	0	39	0 .067 .085
July			46	0	17	25	.345	.507	28	0	32	0 .061 .070
1857—Feb			62	0	24	31	.487	.629	37	0	46	0 .080 .100
July			65	0	24	30	.487	.608			38	0 .083
1858—Jan			52	0	20	27	.406	.548			43	0 .093
1859—Jan			51	0	12	30	.243	.608			45	0 .098
1860—Jan			58	0	18	32	.365	.649			40	0 .087
July	52	9 @	53	0	20	32	.406	.649	42	0	42	6 .091 .092
1861—Jan			59	9	17	30	.345	.608	42	6	43	0 .092 .093
July			53	6	17	30	.345	.608	37	0	38	0 .080 .083
1862—Jan	51	0	51	6	17	31	.345	.629	44	0	45	0 .096 .098
July			47	0	17	31	.345	.629	45	0	46	0 .098 .100
1863—Jan			44	6	17	31	.345	.629	42	0	43	0 .091 .093
July			42	0	17	31	.345	.629	39	0	40	0 .085 .087
1864—Jan			41	0	17	31	.345	.629			41	0 .089
July			41	0	16	31	.324	.629			38	0 .083
1865—Jan			41	0	16	31	.324	.629			35	0 .076
July			41	0	16	31	.324	.629			30	0 .065
1866—Jan			49	0	16	31	.324	.629			28	0 .061
July			42	0	11	26	.223	.527			27	0 .059
1867—Jan			44	6	15	31	.304	.629			24	0 .052
July			44	6	15	31	.304	.629			22	6 .049
1868—Jan			43	0	18	31	.365	.629			23	0 .050
July			43	0	18	31	.365	.629			23	0 .050
1869—Jan			49	0	18	31	.365	.629			28	0 .061
July			44	0	18	28	.365	.568			26	0 .056
1870—Jan			46	0	18	28	.365	.568			26	0 .056
July			45	0	18	28	.365	.568			26	0 .056
1871—Jan			45	0	18	28	.365	.568			31	9 .067
July			43	0	18	28	.365	.568			30	0 .065
1872—Jan			49	0	20	28	.406	.568			35	0 .076
July			44	0	20	28	.406	.568			33	0 .072
1873—Jan			43	0	21	31	.426	.629			33	0 .072
July			43	0	22	31	.446	.629			30	6 .066
1874—Jan			41	0	22	31	.446	.629			29	3 .064
July			41	6	22	31	.446	.629			26	0 .056
1875—Jan			47	6	22	33	.446	.669			25	9 .056
July			41	0	22	32	.446	.649			23	9 .052
1876—Jan			53	0	21	32	.426	.649			23	3 .051
July			47	0	18	32	.365	.649			22	1½ .048
1877—Jan			45	0	18	34	.365	.690				
July			43	6	20	34	.406	.690			29	0 .063
1878—Jan			39	6	20	34	.406	.690			27	0 .059
July			38	0	20	34	.406	.690			25	6 .055
1879—Jan			36	6	19	33	.385	.669			24	3 .053
July			35	3	18	34	.365	.690			23	9 .052
1880—Jan			45	0	18	34	.365	.690			26	9 .058
July			41	0	18	34	.365	.690			26	9 .058
1881—Jan			39	3	18	34	.365	.690			28	3 .061
July			41	0	18	32	.365	.649			£5	10 .056
1882—Jan			45	6	18	32	.365	.649			29	3 .064
July			55	0	18	32	.365	.649			26	3 .057
1883—Jan			49	0	18	32	.365	.649			26	0 .056
July			50	6	18	32	.365	.649			24	6 .053
1884—Jan			51	6	18	32	.365	.649			24	3 .053
July			47	0	18	32	.365	.649			23	0 .050
1885—Jan			41	6	19	33	.385	.669			22	6 .049
July			41	6	18	33	.365	.669			22	0 .048
1886—Jan			35	0	17	33	.349	.669			21	9 .047
July			30	0	17	33	.349	.669			21	6 .047
1887—Jan			31	0	16	33	.324	.669			21	0 .046
July					15	33	.304	.669			21	1½ .046

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures*—Continued.

Date.	Raw materials of manufacture.									
	30. Tallow: St. Petersburg, first Y. C.			31. Leather: English butts, 25–36.			32. Saltpetre: English, refined.			
	Per 112 pounds.		Per pound.	Per pound.			Per 112 pounds.		Per pound.	
	s.	d.		d.	d.		s.	d.		
1888—Jan.	32	0	$0.070	15 @	33	$0.304 @ $0.669	21	4½		$0.046
July	35	6	.077	14	33	.284 .669	21	4½		.046
1889—Jan.	38	6	.084	14	33	.284 .669	21	4½		.046
July	38	6	.084	14	33	.284 .669	21	6		.047
1890—Jan.	38	6	.084	14	33	.284 .669	21	9		.047
July	38	6	.084	14	33	.284 .669	21	9		.047
1891—Jan.	39	0	.085	14	33	.284 .669	21	9		.047
July	39	9	.086	14	33	.284 .669	21	6		.047
1892—Jan.	43	0	.093	14	33	.284 .669	21	3		.046
July	45	0	.098	12	34	.243 .690	21	6		.047
1893—Jan.	45	0	.098	12	34	.243 .690	20	10½		.045

Date.	Raw materials of manufacture.				Metals.					
	33. Ashes: Canadian, pearl.				34. Copper: tough cake.			35. Iron: British bars.		
	Per 112 pounds.		Per pound.		Per 2,240 pounds.		Per pound.	Per 2,240 pounds.		Per 2,240 pounds
	s.	d.	s.	d.	£	£		£	£	
1845–1850			31	0	88		$0.191	8		$38.932
1851—Jan.			30	0	84		.182	6		29.199
July	30	6 @	31	0	84		.182	5½		26.786
1852—Jan.	28	0	28	6	88½		.192	5		24.333
July	27	6	28	0	98		.213	5½		26.786
1853—Jan.	27	6	28	0	102½		.223	9½		46.232
July			28	0	107		.232	9½		46.232
1854—Jan.			29	0	126		.274	9½		45.915
July					126		.274	10½		51.098
1855—Jan.	33	6	34	0	126		.274	8½		41.365
July			34	0	126		.274	8½		42.582
1856—Jan.	45	0	46	0	126		.274	9		43.799
July			42	0	107½		.234	9		43.799
1857—Feb			45	0	135		.293	9		43.799
July			45	0	117		.254	8½		41.149
1858—Jan.			36	0	107		.232	7½		35.282
1859—Jan.			33	0	107		.232	7		34.066
1860—Jan.			33	0	112		.243	6½		31.632
July					102½		.223	6½ @ 6¾	$31.632 @	32.749
1861—Jan.					102½		.223	6½ 6¾	31.632	32.749
July					93		.202	5¾ 6	27.982	29.199
1862—Jan.					107½		.234	6 6½	29.199	30.416
July					91 @ 92½	$0.198 @	.201	5½ 6½	27.982	30.416
1863—Jan.					96 98	.209	.213	6½ 6¾	31.632	32.749
July	32	0	33	0	92		.200	6½ 6¾	31.632	32.749
1864—Jan.			30	0	108		.235	8½ 9	41.365	43.799
July			34	0	93		.202	8 8½	38.932	41.365
1865—Jan.			31	0	89		.193	7½		36.499
July			29	0	86½		.188	7¾ 8½	37.715	40.149
1866—Jan.			40	0	106		.230	7¾ 8	37.715	38.932
July			29	0	85½		.186	7½		36.499
1867—Jan.			33	0	86		.187	7		34.066
July			32	0	78		.169	6½		32.849
1868—Jan.			31	0	76		.165	6½		31.632
July			33	0	79		.172	6½		30.416
1869—Jan.			31	0	78		.169	6½		31.632
July			32	0	70		.152	6½		32.849
1870—Jan.			31	0	73½		.160	6½		35.282
July			31	0	73		.159	7½		37.715
1871—Jan.			31	0	71		.154	7		34.066
July			36	0	74		.161	7½		36.282
1872—Jan.			45	0	90		.196	8½		42.582
July			41	0	112		.243	12½		60.831
1873—Jan.			39	0	92½		.201	10½		49.282
July			38	6	91		.198	12½		60.615
1874—Jan.			36	0	92		.200	12½		60.615
July					86½		.188	9½		47.448

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures*—Continued.

Date.	Raw materials of manufacture.				Metals.			
	33. Ashes: Canadian, pearl.				34. Copper: tough cake.		35. Iron: British bars.	
	Per 112 pounds.		Per pound.		Per 2,240 pounds.	Per pound.	Per 2,240 pounds.	Per 2,240 pounds.
	s.	d.			£		£	
1875—Jan	40	0		$0.087	92	$0.200	9½	$45.623
July	42	0		.091	88	.191	8½	40.149
1876—Jan	38	3		.083	88	.191	7½	38.324
July	27	6		.060	82½	.179	7½	35.282
1877—Jan	34	6		.075	81½	.177	7½	34.674
July	38	6		.084	75½	.164	7	34.066
1878—Jan	31	0		.067	71	.154	6½	30.416
July	33	0		.072	68½	.149	5½	27.982
1879—Jan	36	0		.078	63½	.138	5½	26.157
July	33	0		.072	60½	.132	5½	26.157
1880—Jan	33	3		.072	71½	.155	7½	38.324
July	33	0		.072	64	.139	5½	28.591
1881—Jan	36	0		.078	66½	.144	5½	27.982
July	37	9		.082	64½	.141	5½	27.982
1882—Jan	35	0		.076	75½	.164	6½	32.849
July	48	0		.104	70	.152	6½	30.416
1883—Jan	50	6		.110	70½	.153	6	29.199
July	43	6		.095	68	.148	5½	28.591
1884—Jan	52	6		.114	62½	.135	5½	26.766
July	40	9		.089	59½	.130	6½	29.807
1885—Jan	29	0		.063	53	.115	6	29.199
July	31	0		.067	48½	.105	5½	26.766
1886—Jan	41	0		.089	44	.096	5½	25.549
July	38	0		.083	42½	.092	5½	25.549
1887—Jan	47	6		.103	42½	.093	5	24.333
July	42	0		.091	43½	.095	5	24.333
1888—Jan	45	6		.099	80½	.175	5½	26.157
July	49	0		.106	75	.163	5½	26.157
1889—Jan	38	0		.083	78½	.171	5½	27.374
July	34	0		.074	46½	.100	5½	26.766
1890—Jan	33	0		.072	56½	.122	8½	42.582
July	34	6		.075	59½	.129	8	38.932
1891—Jan	42	0		.091	58½	.127	7½	37.107
July	46	0		.100	58½	.127	6½	31.024
1892—Jan	45	0		.098	48½	.105	6½	31.024
July	45	0		.098	48½	.106	6½	31.024
1893—Jan	45	0		.098	51	.111	6½	31.024

Date.	Metals.							
	36. Iron: Swedish bars.				37. Lead: English pig.			38. Steel: rails, heavy.	
	Per 2,240 pounds.		Per 2,240 pounds.		Per 2,240 pounds.		Per pound.	Per 2,240 pounds.	Per 2,240 pounds.
	£		£		£				
1845–1850		11½		$56.573		17½	$0.038		
1851—Jan		11½		57.181		17½	.038		
July		11½		57.181		17	.037		
1852—Jan		11½		57.181		17	.037		
July		11½		57.181		17½	.038		
1853—Jan		11½		54.748		24	.052		
July		11½		55.965		24½	.053		
1854—Jan		12½		60.831		23½	.051		
July		12½		60.831		25	.054		
1855—Jan		12½		60.831		23	.050		
July		14		68.131		22½	.049		
1856—Jan		18		87.597		26	.056		
July		16		77.864	25 ②	26½	$0.054 ② .058		
1857—Feb		15		72.998		23	.050		
July		16		77.864		25	.054		
1858—Jan		15		72.998		23	.050		
1859—Jan		13		63.265		22	.048		
1860—Jan		11½		55.965		22	.048		
July	11½ ②	12	$55.965 ②	58.398	21½	22	.047	.048	
1861—Jan	11½	12	55.965	58.398	21½	22	.046	.048	
July	11	11½	53.532	55.965	19½	20		.043	
1862—Jan	11½	12	55.965	58.398	20	20½	.043	.045	
July	11½	12	55.965	58.398	20½	21½	.045	.047	
1863—Jan	11½	12	55.965	58.398	21½	22	.047	.048	
July	11½	11½	54.748	55.965	20½	21	.045	.046	

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures*—Continued.

Date.	Metals.					
	36. Iron: Swedish bars.		37. Lead: English pig.		38. Steel: rails, heavy.	
	Per 2,240 pounds.	Per 2,240 pounds.	Per 2,240 pounds.	Per pound.	Per 2,240 pounds.	Per 2,240 pounds.
	£ £		£		£	
1864—Jan.	11½ @ 12	$55.965 @ $58.398	21	$0.046	.....	.....
July.	12½	60.831	21½	.047	.....	.....
1865—Jan.	12½	60.831	20	.043	.....	.....
July.	11½	57.181	19	.041	.....	.....
1866—Jan.	11½	57.181	21½	.047	.....	.....
July.	11	53.532	20	.043	.....	.....
1867—Jan.	10½	49.882	20	.043	.....	.....
July.	10½	49.882	20	.043	.....	.....
1868—Jan.	10½	49.882	19½	.042	.....	.....
July.	10½	49.882	19½	.042	.....	.....
1869—Jan.	10	48.665	19	.041	.....	.....
July.	10	48.665	19	.041	.....	.....
1870—Jan.	10	48.665	19	.041	.....	.....
July.	10	48.665	18	.039	.....	.....
1871—Jan.	10	48.665	18	.039	.....	.....
July.	10	48.665	18	.039	.....	.....
1872—Jan.	10½	51.098	19	.041	.....	.....
July.	17	82.731	20	.043	.....	.....
1873—Jan.	17½	85.164	21½	.047	.....	.....
July.	20½	99.763	23½	.051	.....	.....
1874—Jan.	20½	99.763	24½	.053	.....	.....
July.	20½	99.763	21½	.046	.....	.....
1875—Jan.	17½	86.380	24	.052	.....	.....
July.	16½	80.297	22	.048	.....	.....
1876—Jan.	16½	80.297	22½	.050	8½	$41.365
July.	15½	75.431	21½	.046	.....	.....
1877—Jan.	13½	64.481	22	.048	7½	35.282
July.	11½	55.965	20½	.045	6½	33.457
1878—Jan.	11½	55.965	19½	.042	6½	31.632
July.	10½	52.315	17½	.037	.....	.....
1879—Jan.	9½	47.448	14½	.032	5½	27.982
July.	9½	45.015	13½	.029	5½	26.766
1880—Jan.	10½	49.882	19½	.043	8½	42.572
July.	10	48.665	16	.035	5½	27.982
1881—Jan.	9½	47.448	15½	.033	6½	30.416
July.	9½	45.015	13½	.029	6	29.199
1882—Jan.	10½	49.882	15½	.033	6½	33.457
July.	9½	47.448	14½	.032	5½	27.982
1883—Jan.	9½	47.448	14½	.032	5½	26.766
July.	.....	.....	13½	.029	5½	24.941
1884—Jan.	.....	.....	12½	.027	4½	21.899
July.	.....	.....	10½	.023	4½	23.116
1885—Jan.	.....	.....	11½	.024	4½	23.116
July.	.....	.....	12½	.027	4½	23.116
1886—Jan.	.....	.....	12½	.027	4½	23.116
July.	.....	.....	13 7/16	.029	3½	18.249
1887—Jan.	.....	.....	12 11/16	.028	4 5/16	20.379
July.	.....	.....	12½	.027	4½	20.074
1888—Jan.	.....	.....	15 1/16	.034	4 5/16	20.379
July.	.....	.....	13	.028	3½	18.858
1889—Jan.	.....	.....	13½	.029	4½	20.074
July.	.....	.....	12½	.027	4½	23.116
1890—Jan.	10½	50.490	14 7/16	.031	7	34.066
July.	.....	.....	13 7/16	.029	4½	23.724
1891—Jan.	9½	45.015	13½	.029	4 15/16	24.029
July.	8½	40.149	13	.028	4 5/16	21.595
1892—Jan.	8½	42.582	11½	.026	4 5/16	20.379
July.	.....	.....	11½	.024	4½	20.074
1893—Jan.	9½	41.365	10½	.022	4	19.466

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures*—Continued.

Date.	Metals.				Manchester markets.	
	39. Tin: English bars.		40. Steam coal: average, at Newcastle.		41. Raw cotton: upland, middling.	
	Per 2,240 pounds.	Per pound.	Per 2,240 pounds.	Per 2,240 pounds.	Per pound.	Per pound.
	£		s. d.		d.	
1845–1850	85½	$0.186			5¼	$0.107
1851—Jan	84	.182				
July	85	.185				
1852—Jan	90	.196				
July	88	.191				
1853—Jan	103	.224				
July	108	.235				
1854—Jan	126	.274				
July	120	.261				
1855—Jan	117	.254				
July	115	.250				
1856—Jan	127	.276				
July	134	.291				
1857—Feb	143	.311				
July	143	.311				
1858—Jan	109	.237				
1859—Jan	124	.269				
1860—Jan	139	.302				
July	137	.298				
1861—Jan	137	.298				
July	126	.274				
1862—Jan	121	.263				
July	115	.250				
1863—Jan	116	.252				
July	123	.267				
1864—Jan	113	.245				
July	109	.237				
1865—Jan	99	.215				
July	98	.213				
1866—Jan	104	.226				
July	86	.187				
1867—Jan	85	.185			15¼	.309
July	90	.196				
1868—Jan	96	.209				
July	97	.211				
1869—Jan	111	.241	10 0	$2.433	11	.223
July	125	.272				
1870—Jan	118	.256				
July	138	.300				
1871—Jan	135	.293	11 0	2.677	8	.162
July	133	.289				
1872—Jan	153	.332				
July	157	.341				
1873—Jan	146	.317	24 0	5.840	10	.203
July	138	.300				
1874—Jan	122	.265				
July	104	.226				
1875—Jan	101	.219			7¾	.157
July	91	.198				
1876—Jan	85	.185			7	.142
July	80½	.175				
1877—Jan	81	.176	11 3	2.737	6¾	.137
July	74	.161			6¼	.127
1878—Jan	72½	.158	10 0	2.433	6⅜	.129
July	66½	.144			6¼	.127
1879—Jan	65½	.142	8 6	2.068	5⅜	.109
July	64	.139			6 15/16	.141
1880—Jan	94	.204	8 8	2.109	6 15/16	.141
July	87	.189	9 3	2.251	6¾	.137
1881—Jan	94	.204	9 1	2.210	6¾	.137
July	95½	.207	9 0	2.190	6 13/16	.136
1882—Jan	114½	.249	9 3	2.251	6⅝	.134
July	104	.226	9 6	2.313	6¾	.140
1883—Jan	98	.213	9 6	2.312	5¾	.117
July	97½	.212	9 9	2.372	5½	.112
1884—Jan	88½	.192	10 0	2.433	6	.122
July	86	.187	10 6	2.555	6 1/16	.126
1885—Jan	77½	.168	10 6	2.555	6	.122
July	93½	.203	9 6	2.312	5 11/16	.115
1886—Jan	97	.211	8 3	2.007	4 15/16	.100
July	104½	.227	8 0	1.947	5 3/16	.105
1887—Jan	109½	.225	7 6	1.825	5¼	.107
July	106	.230	8 6	2.068	5 15/16	.120

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures*—Continued.

Date.	Metals.				Manchester markets.	
	39. Tin: English bars.		40. Steam coal: average, at Newcastle.		41. Raw cotton: upland, middling.	
	Per 2,240 pounds.	Per pound.	Per 2,240 pounds.	Per 2,240 pounds.	Per pound.	Per pound.
	£		s. d.		d.	
1888—Jan.	148	$0.322	7 6	$1.823	5¼	$0.117
July.	92½	.201	7 7½	1.855	5 7/16	.113
1889—Jan.	101½	.221	8 0	1.947	5¼	.109
July.	.....	.....	9 0	2.190	6¼	.124
1890—Jan.	103	.224	11 6	2.798	5¾	.114
July.	.....	.....	12 0	2.920	6 7/16	.131
1891—Jan.	.....	.....	12 9	3.102	5 7/16	.105
July.	97	.211	a 13 7½	3.315	4½	.091
1892—Jan.	90½	.196	10 0	2.433	4¼	.096
July.	106½	.231	9 10	2.393	4 7/16	.082
1893—Jan.	96	.209	8 11	2.170	5¼	.107

Date.	Manchester markets.					
	42. Raw cotton: upland, middling, fair.		43. Raw cotton: Surat Dhollerah, fair.		44. Raw cotton: Pernambuco, fair.	
	Per pound.	Per pound.	Per pound.	Per pound.	Per pound.	Per pound.
	d.		d. d.		d.	
1845–1850.	5½	$0.112	5½	$0.112	8½	$0.167
1851—Jan.	7⅛	.160	4½ @ 5	$0.094 @ .101	8⅜	.170
July.	5½	.117	.....	.....	7	.142
1852—Jan.	4¾	.100	.....	.....	6¼	.124
July.	5⅞	.119	.....	.....	7	.142
1853—Jan.	5½	.117	.....	.....	6⅝	.137
July.	6¼	.132	.....	.....	6⅝	.134
1854—Jan.	6⅛	.129	.....	.....	7⅜	.147
July.	6½	.127	.....	.....	6⅝	.140
1855—Jan.	5⅛	.109	.....	.....	6⅝	.139
July.	7	.142	.....	.....	7⅛	.152
1856—Jan.	5⅞	.119	.....	.....	6½	.132
July.	6⅝	.134	.....	.....	7	.142
1857—Feb.	7⅞	.157	.....	.....	8	.162
July.	8½	.167	4⅝ 5⅝	.094 .117	8	.162
1858—Jan.	6½	.127	3⅝ 5½	.071 .107	7⅛	.144
1859—Jan.	5⅛	.117	4½ 6⅛	.091 .124	8	.162
1860—Jan.	5½	.107	3⅝ 5⅝	.076 .114	8½	.171
July.	7	.142	2½ 5⅝	.051 .109	8	.162
1861—Jan.	7½	.152	4½ 5½	.086 .104	9	.181
July.	8½	.170	4⅝ 6⅝	.094 .134	9	.181
1862—Jan.	12⅛	.248	5⅛ 10½	.112 .208	13	.264
July.	15½	.309	11 15½	.223 .314	16½	.335
1863—Jan.	25½	.522	17½	.350	21½	.437
July.	23	.466	17½ 18	.360 .365	21½	.441
1864—Jan.	.....	.....	23½	.476	28	.568
July.	.....	.....	22	.446	29	.588
1865—Jan.	22½	.558	20	.406	27	.548
July.	.....	.....	14½	.294	19½	.396
1866—Jan.	22	.446	17½	.350	22	.446
July.	14½	.294	9½	.188	14½	.294
1867—Jan.	16	.324	12½	.253	15½	.314
July.	12½	.253	9	.183	12	.243
1868—Jan.	8	.162	5½	.112	7½	.152
July.	12½	.248	9½	.188	11	.223
1869—Jan.	11½	.233	8½	.172	11½	.233
July.	13	.264	10½	.208	11½	.233
1870—Jan.	11⅝	.236	9½	.193	11½	.241
July.	11½	.241	8½	.172	10½	.219
1871—Jan.	8½	.167	6½	.132	8½	.177
July.	.....	.....	6⅞	.140	8⅜	.170
1872—Jan.	.....	.....	7½	.157	9½	.200
July.	.....	.....	7½	.152	11	.225
1873—Jan.	.....	.....	7½	.147	10⅜	.210
July.	.....	.....	7½	.152	9½	.188
1874—Jan.	.....	.....	6½	.134	8½	.177
July.	.....	.....	6	.122	8½	.167
1875—Jan.	.....	.....	6½	.124	7⅜	.160
July.	.....	.....	6	.122	7½	.160

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TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures*—Continued.

Date.	Manchester markets.					
	42. Raw cotton: upland, middling, fair.		43. Raw cotton: Surat Dhollerah, fair.		44. Raw cotton: Pernambuco, fair.	
	Per pound.	Per pound.	Per pound.	Per pound.	Per pound.	Per pound.
	d.		d.		d.	
1876—Jan.			5 7/8	$0.119	8 3/4	$0.177
July			5 1/8	.104	6 5/8	.134
1877—Jan.			5 3/8	.109	6 13/16	.138
July					6 3/4	.137
1878—Jan.			5 1/2	.107	6 3/4	.137
July			5 1/8	.104	6 3/8	.129
1879—Jan.			4	.081	5 7/8	.119
July	6 1/16	$0.126	5 3/8	.109	7	.142
1880—Jan.	7 1/2	.147	5 5/8	.114	7 1/8	.147
July	7	.142	5	.101	6 7/8	.140
1881—Jan.	7	.142	5 1/2	.107	7 1/16	.143
July	6 7/8	.140	4 1/8	.084	6 5/16	.128
1882—Jan.	7	.142	4 5/8	.094	6 13/16	.138
July	7 1/8	.150	4 1/2	.091	7 1/4	.147
1883—Jan.	6 3/8	.124	3 3/4	.076	6 3/8	.129
July	6 1/2	.124	3 7/8	.079	5 7/8	.119
1884—Jan.	6 3/8	.129	4	.081	6 1/8	.124
July	6 1/2	.132	4	.081	6 3/8	.129
1885—Jan.	6 1/16	.128	4 1/4	.086	6 1/4	.127
July	5 11/16	.120	4 1/16	.087	5 3/4	.117
1886—Jan.	5 1/16	.105	3 15/16	.080	5 3/8	.109
July	5 7/16	.110	3 1/2	.071	5 7/16	.110
1887—Jan.	5 3/8	.109	3 9/16	.072	5 5/16	.108
July	6 1/16	.123	3 5/8	.074	5 7/8	.119
1888—Jan.	5 3/8	.119	3 13/16	.077	5 13/16	.118
July	5 3/8	.117	3 13/16	.077	5 11/16	.115
1889—Jan.	5 5/8	.114	4 5/16	.087	6	.122
July	5 11/16	.115	4 5/16	.087	6 3/16	.126
1890—Jan.	5 11/16	.115	4 5/16	.087	6 3/16	.126
July	6 9/16	.133	4 3/16	.085	6 5/8	.134
1891—Jan.	5 7/16	.110	3 7/16	.070	5 3/4	.117
July	4 13/16	.098	3 1/16	.062	5 1/16	.107
1892—Jan.	4 5/8	.089	3 7/16	.067	4 15/16	.100
July	4 7/16	.093	2 15/16	.060	4 5/16	.087
1893—Jan.	5 3/8	.109	3 7/8	.079	5 1/16	.103

Date.	Manchester markets.					
	45. Cotton yarn: mule No. 40, fair, second quality.		46. Cotton cloths: printers', 26-inch, 66 reed, 20 yards, 4 pounds, 2 ounces.		47. Cotton cloths: Gold-end shirtings, 40-inch, 66 reed, 37½ yards, 8 pounds, 12 ounces.	
	Per pound.	Per pound.	Each.	Each.	Each.	Each.
	d.		s. d.		s. d.	
1845—1850.	9 3/4	$0.198	4 7 1/2	$1.130	8 10	$2.149
1851—Jan.	12 3/4	.233	5 2	1.257	10 10 1/2	2.646
July	9 7/8	.200	4 3	1.034	8 9	2.129
1852—Jan.	9	.183	4 4 1/2	1.065	8 9	2.129
July	9 3/4	.198	4 6	1.095	9 1 1/2	2.220
1853—Jan.	9 7/8	.200	5 0	1.217	9 7 1/2	2.342
July	10 1/4	.203	5 0	1.217	9 6	2.312
1854—Jan.	9 1/2	.193	4 9	1.156	9 3	2.251
July	9 1/2	.188	4 7 1/2	1.125	8 10 1/2	2.160
1855—Jan.	8 3/4	.177	4 1 1/2	1.004	8 0	1.947
July	9 3/4	.198	4 6	1.095	8 6	2.068
1856—Jan.	9 1/2	.188	4 4 1/2	1.065	8 4 1/2	2.047
July	10	.203	4 7 1/2	1.125	8 9	2.129
1857—Feb.	11 5/8	.236	5 3	1.277	8 4 1/2	2.038
July	12 3/8	.250	5 4 1/2	1.308	9 10 1/2	2.401
1858—Jan.	10 3/8	.205	4 7 1/2	1.125	8 7 1/2	2.099
1859—Jan.	12 3/8	.246	5 4 1/2	1.308	9 7 1/2	2.342
1860—Jan.	12 1/2	.248	6 1 1/2	1.490	10 7 1/2	2.585
July	11 7/8	.241	6 0	1.460	10 6	2.555
1861—Jan.	12 3/8	.253	6 0	1.460	11 0	2.677
July	12	.243	5 7 1/2	1.369	9 7 1/2	2.342
1862—Jan.	14 3/4	.299	6 4 1/2	1.551	11 0	2.677
July	17	.345	7 6	1.825	12 9	3.102
1863—Jan.	30	.606	10 6	2.555	19 6	4.745
July	26	.527	9 9	2.372	18 9	4.562

TABLE 56.—*Wholesale prices of 47 commodities, mainly in London and Manchester, England, as quoted by the London Economist, from 1845 to 1893, with equivalents in United States money and measures*—Concluded.

Date.	Manchester markets.					
	45. Cotton yarn: mule No. 40, fair, second quality.		46. Cotton cloths: printers', 26-inch, 66 reed, 20 yards, 4 pounds, 2 ounces.		47. Cotton cloths: Gold-end shirtings, 40-inch, 66 reed, 37½ yards, 8 pounds, 12 ounces.	
	Per pound.	Per pound.	Each.	Each.	Each.	Each.
	d.		*s. d.*		*s. d.*	
1864—Jan.....	34	$0.690	14 0	$3.407	23 6	$5.718
July....	34½	.700	13 0	3.163	24 6	5.962
1865—Jan.....	31½	.639	11 9	2.859	22 3	5.414
July....	23	.466	9 6	2.312	17 3	4.197
1866—Jan.....	30	.608	11 6	2.798	18 6	4.502
July....	21	.426	8 0	1.947	17 3	4.197
1867—Jan.....	21	.426	8 3	2.007	15 9	3.833
July....	17½	.350	6 9	1.643	14 0	3.047
1868—Jan.....	11½	.233	5 0	1.217	10 4½	2.525
July....	14½	.299	5 10½	1.430	12 3	2.961
1869—Jan.....	14½	.294	5 10½	1.430	11 9	2.859
July....	16½	.330	6 1½	1.490	13 0	3.168
1870—Jan.....	15	.304	5 10½	1.430	12 3	2.961
July....	14½	.299	5 6	1.338	11 10½	2.890
1871—Jan.....	13½	.274	5 3	1.277	10 7½	2.585
July....	13½	.279	5 1½	1.247	10 7½	2.585
1872—Jan.....	14½	.294	5 7½	1.369	11 3	2.737
July....	18	.365	6 1½	1.490	11 9	2.859
1873—Jan.....	15	.304	5 9	1.399	11 3	2.737
July....	13½	.279	5 6	1.338	11 1½	2.707
1874—Jan.....	13½	.269	5 0	1.217	10 7½	2.585
July....	12½	.259	5 3	1.277	10 10½	2.646
1875—Jan.....	11½	.241	5 1½	1.247	10 6	2.555
July....	11½	.238	5 1½	1.247	10 6	2.555
1876—Jan.....	12	.243	5 0	1.217	10 0	2.433
July....	11	.223	4 3	1.034	8 9	2.129
1877—Jan.....	11½	.233	5 4½	1.308	9 10½	2.403
July....	9½	.195	5 0	1.217	9 6	2.312
1878—Jan.....	10½	.205	4 6	1.095	9 1½	2.220
July....	9½	.198	4 4½	1.065	8 10½	2.160
1879—Jan.....	8½	.172	3 10½	.943	8 0	1.947
July....	9½	.193	3 10½	.943	8 9	2.129
1880—Jan.....	10½	.218	4 0	.973	8 9	2.129
July....	11½	.228	3 3	.791	8 9	2.129
1881—Jan.....	10½	.218	4 7½	1.125	9 0	2.190
July....	10½	.208	3 4	.811	8 7½	2.068
1882—Jan.....	10½	.218	4 7½	1.125	8 9	2.129
July....	10½	.213	4 6	1.095	9 3	2.251
1883—Jan.....	9½	.198	4 4	1.054	7 10½	1.916
July....	9½	.198	4 0	.973	7 7½	1.855
1884—Jan.....	9½	.195	4 0	.973	7 9	1.886
July....	9½	.200	4 1½	1.004	7 4½	1.795
1885—Jan.....	9½	.198	3 10½	.943	7 4½	1.795
July....	9	.183	3 10½	.943	7 3	1.764
1886—Jan.....	8½	.165	4 1½	1.004	7 6	1.825
July....	8½	.165	4 1½	1.004	7 1½	1.734
1887—Jan.....	8½	.170	4 1½	1.004	7 4	1.784
July....	8½	.174	4 0	.973	7 6	1.825
1888—Jan.....	8½	.177	4 0	.973	7 9	1.886
July....	8½	.172	4 0	.973	7 6	1.825
1889—Jan.....	9½	.185	4 1½	1.004	7 9	1.886
July....	9	.183	4 1½	1.004	8 1½	1.977
1890—Jan.....	9	.183	4 1½	1.004	8 1½	1.977
July....	9½	.198	4 1½	1.004	8 3	2.007
1891—Jan.....	9½	.193	4 0	.973	8 1½	1.977
July....	8½	.172	3 10½	.943	7 9	1.886
1892—Jan.....	8	.162	3 9	.913	7 9	1.886
July....	7½	.155	3 6	.852	7 4½	1.795
1893—Jan.....	8½	.167	3 10½	.943	7 10½	1.916

TABLE 57.—*Relative prices in England—The Economist index number.*

[1845 to 1850 = 100.]

Year.	1. Coffee: Jamaica, ordinary to fine ordinary.	2. Sugar: British plantation, brown and Bengal, good yellow and white.	3. Tea: Congou, middling common to fair good.	4. Tobacco: Virginia leaf.	5. Wheat: Gazette price.	6. Butchers' meat: beef, inferior, middling; beef, prime, large; mutton, middling and mutton, prime.	7. Silk: raw Cossimbuzar.	8. Flax and hemp: flax, St. Petersburg, 12-head, and hemp, St. Petersburg, clean, raw.	9. Wool, sheeps': English Southdown, Port Philip lambs and fleece, and South Australian, lambs.	10. Indigo: Bengal.	11. Oils: seal, pale; olive, Levant, Gallipoli; and palm.	12. Timber: Dantzig and Memel, and Canadian yellow pine.
1845–1850	100	100	100	100	100	100	100	100	100	100	100	100
1851	114	97	124	156	71	86	113	94	.....	128	101	84
1852	*93*	*73*	*86*	*111*	*72*	*95*	*104*	*101*	.....	*117*	*98*	*78*
1853	*109*	*73*	*114*	*106*	*87*	*102*	*119*	*118*	.....	*159*	*121*	*104*
1854	*115*	*75*	*154*	*117*	*151*	*120*	*126*	*101*	.....	*173*	*140*	*116*
1855	*109*	*63*	*111*	*136*	*137*	*113*	*109*	*147*	.....	*147*	*142*	*116*
1856	*119*	*93*	*109*	*159*	*144*	*113*	*117*	*133*	.....	*113*	*149*	*108*
1857	*128*	*108*	*141*	*189*	*110*	*119*	*178*	*111*	.....	*117*	*147*	*113*
1858	114	103	140	200	90	112	156	113	.....	163	121	100
1859	128	100	119	155	75	113	139	113	.....	.....	118	91
1860	130	114	152	144	83	109	152	121	.....	.....	127	97
1861	134	98	151	133	101	121	117	129	.....	124	133	97
1862	153	82	126	189	116	120	139	130	.....	169	133	98
1863	161	74	126	322	86	107	149	139	.....	138	138	104
1864	145	103	129	322	75	115	139	140	.....	123	130	102
1865	161	65	108	322	72	123	157	132	.....	137	129	97
1866	179	72	141	222	89	129	200	140	.....	126	141	91
1867	149	66	108	200	113	121	183	116	.....	145	140	95
1868	141	73	104	200	127	112	161	121	.....	154	138	95
1869	127	72	135	167	96	117	183	124	.....	143	127	97
1870	134	83	102	167	80	123	174	116	96	151	126	99
1871	125	83	100	156	100	133	183	116	88	137	114	115
1872	145	83	100	189	104	134	169	115	.....	159	123	116
1873	171	74	100	195	104	144	169	118	157	169	118	127
1874	233	68	108	183	116	146	149	118	.....	123	110	125
1875	173	68	100	256	80	137	115	95	145	163	111	132
1876	183	67	100	256	84	153	87	105	133	130	116	128
1877	178	88	116	211	97	138	187	99	141	173	114	128
1878	183	60	111	189	98	135	143	92	122	169	110	132
1879	143	83	111	156	75	127	113	97	109	164	104	115
1880	151	70	141	180	88	119	135	101	117	205	106	105
1881	122	60	100	161	82	146	130	71	120	197	95	106
1882	100	67	89	222	84	125	139	75	106	195	94	110
1883	82	60	76	240	77	145	126	68	106	190	100	108
1884	106	54	92	200	73	123	117	76	98	151	110	100
1885	85	37	78	228	60	122	89	78	92	157	93	102
1886	85	50	93	216	57	106	93	76	90	153	86	92
1887	132	38	73	200	66	112	130	79	116	131	76	86
1888	166	49	64	244	58	108	117	66	111	129	74	80
1889	172	50	70	227	57	100	110	62	107	125	82	111
1890	186	42	62	222	56	123	114	64	120	120	82	115
1891	173	36	70	244	61	126	130	65	102	137	86	110
1892	185	42	60	244	70	131	113	55	98	114	83	110
1893	179	39	68	244	48	119	120	62	94	121	76	100

TABLE 57.—*Relative prices in England—The Economist index number*—Concluded.

[1845 to 1850=100.]

Year.	13. Tallow: St. Petersburg, first Y. C.	14. Leather: English butts, 25-36.	15. Copper: tough cake.	16. Iron: British bars and Swedish bars.	17. Lead: English pig.	18. Tin: English bars.	19. Cotton, raw: upland, middling; upland, middling, fair; Surat Dholleruh, fair; and Pernambuco, fair.	20. Cotton yarn: mule No. 40, fair, second quality.	21. Cotton, cloths: printers, 26-inch, 66 reed, 20 yards, and Gold-end shirtings, 40-inch, 66 reed, 37½ yards.	22. Cotton, raw: Pernambuco, fair.	Total of all articles.	Average for all articles.
1845-1850.....	100	100	100	100	100	100	100	100	100	100	2,200	100
1851.....	86	100	95	90	100	98	86	127	118	106	2,293	104
1852.....	*84*	*97*	*101*	*88*	*97*	*105*	.....	*92*	*97*	*74*	*1,863*	*93*
1853.....	*98*	*92*	*116*	*106*	*137*	*120*	.....	*101*	*109*	*82*	*2,167*	*108*
1854.....	*136*	*97*	*143*	*111*	*134*	*147*	.....	*97*	*104*	*88*	*2,445*	*122*
1855.....	*147*	*103*	*143*	*107*	*131*	*137*	.....	*90*	*90*	*77*	*2,357*	*118*
1856.....	*155*	*117*	*143*	*138*	*149*	*149*	.....	*95*	*95*	*81*	*2,459*	*123*
1857.....	*141*	*153*	*153*	*122*	*131*	*167*	.....	*119*	*101*	*97*	*2,645*	*132*
1858.....	118	130	121	110	131	115	73	112	99	86	2,612	119
1859.....	116	116	121	100	125	145	*97*	124	112	*97*	*2,304*	*115*
1860.....	131	136	127	90	125	151	*85*	125	124	*103*	*2,426*	*121*
1861.....	136	130	116	115	123	160	86	128	111	109	2,727	124
1862.....	116	133	121	77	115	141	140	151	112	157	2,878	131
1863.....	101	133	110	90	122	130	314	208	222	284	3,492	159
1864.....	93	133	122	105	114	130	460	349	277	329	3,787	172
1865.....	93	131	101	95	115	115	363	323	252	325	3,575	163
1866.....	112	131	122	100	123	122	383	308	222	267	3,564	162
1867.....	106	128	98	88	114	99	227	215	178	191	3,024	137
1868.....	98	136	86	86	111	112	100	118	114	181	2,682	122
1869.....	111	136	89	85	109	129	155	149	131	189	2,666	121
1870.....	105	128	83	88	109	138	173	154	135	144	2,689	122
1871.....	102	128	81	87	103	160	118	138	118	106	2,590	118
1872.....	111	133	103	99	109	177	141	149	125	119	2,835	129
1873.....	98	144	105	141	124	171	132	154	126	126	2,947	134
1874.....	93	147	104	167	139	143	120	136	116	106	2,891	131
1875.....	108	153	105	138	137	118	111	122	117	95	2,778	126
1876.....	120	147	100	125	131	99	107	123	111	106	2,711	123
1877.....	102	144	93	104	126	95	94	108	113	82	2,715	123
1878.....	89	150	81	91	109	85	93	104	101	82	2,529	115
1879.....	83	146	72	77	84	77	73	88	81	71	2,225	101
1880.....	102	144	81	92	112	109	110	110	95	88	2,538	115
1881.....	89	144	75	79	87	110	105	110	101	86	2,376	108
1882.....	103	139	86	86	88	134	102	110	99	82	2,435	111
1883.....	111	139	80	78	83	114	89	100	92	78	2,342	106
1884.....	113	139	71	69	70	104	92	99	88	74	2,221	101
1885.....	87	144	60	75	65	90	93	100	80	75	2,098	95
1886.....	70	142	50	66	72	113	80	83	85	65	2,023	92
1887.....	60	136	48	62	74	120	82	86	84	68	2,059	94
1888.....	73	133	91	67	90	173	90	90	87	70	2,230	101
1889.....	87	130	89	70	76	118	91	93	88	72	2,187	99
1890.....	75	130	64	109	82	120	92	92	91	75	2,236	102
1891.....	80	130	66	87	76	111	82	97	89	70	2,240	102
1892.....	105	130	55	78	66	106	73	82	84	59	2,133	97
1893.....	107	128	58	78	58	112	83	85	85	64	2,120	96

In the foregoing table we may observe a certain similarity in tendencies with those which were found in the United States. Attention is particularly called at this point to the fall of prices in 1892 and 1893 as compared with 1891. A similar fall in the United States was revealed by the supplementary tables which have just been discussed. On the other hand it needs but a glance at the foregoing table to show the wide divergence between the methods here employed and those followed in this report. We have here a simple average of 22 articles, while the list used for the United States contained 223. If the number of articles

be small there is greater probability of its including only objects of very general use and of approximately equal importance. At the same time the influence of each article in moulding the result is infinitely greater. Hence the choice of articles must be made with the utmost caution. In the foregoing list the inclusion of indigo and the omission of coal have been frequently criticised.

In the United States we had a list of 223 articles, but recognizing the danger of a false result by a simple average through the presence of many articles of minor importance, an effort was made to ascertain the importance of the various articles and to assign to them a proportionate weight in the result. As a measure of this importance, we took their consumption in average families. We found that the prices of the articles upon our list affected 68.60 per cent of the total expenditure of families. In 1891 the relative price of all articles compared with 1860 stood at 94.4 by this method, while by the simple average plan it was 92.2. To compare these results with those of the Economist it is necessary to reduce the latter to the basis of 1860. In so doing we have been obliged to omit the much-discussed item of indigo, since the prices for that article are given quite spasmodically, and none are quoted for 1860, or even thereabouts. In making this table we have held strictly to the price figures. Furthermore, when the relative price represents several articles it consists in one table of the average of the relative prices of the various items. With these necessary explanations we present the following table:

TABLE 58.—*Relative prices in England compared with 1860.*

[1860=100.]

Year.	Coffee.	Sugar.	Tea.	Tobacco.	Wheat.	Butchers' meat.	Silk.	Flax and hemp.	Wool, sheep's.	Indigo.	Oils.	Timber.
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	.....	100.0	100.0
1861	103.1	99.9	93.3	88.9	121.3	111.8	77.1	110.7	110.7	.....	109.6	102.9
1862	116.3	88.8	78.3	125.9	142.8	111.7	91.4	112.5	92.4	.....	107.5	101.0
1863	121.7	83.8	78.3	214.8	103.8	96.9	95.7	118.8	96.7	.....	114.4	106.0
1864	115.5	108.2	76.7	214.8	90.2	106.3	91.4	119.8	100.3	.....	107.1	104.6
1865	122.5	83.5	66.7	.....	85.7	112.0	102.9	108.5	104.7	.....	107.0	99.5
1866	120.2	93.2	86.7	125.9	104.7	116.9	131.4	118.2	94.9	.....	115.9	93.9
1867	113.2	84.0	66.7	133.3	136.2	111.6	120.0	102.3	95.8	.....	113.9	97.3
1868	107.0	95.4	110.0	133.3	152.5	103.0	105.7	109.9	80.8	.....	109.9	95.5
1869	96.1	93.2	123.3	111.1	115.3	107.2	120.0	114.4	76.8	.....	100.6	99.0
1870	101.6	107.2	128.3	111.1	98.9	112.5	114.3	103.7	71.0	.....	102.8	100.7
1871	95.3	106.9	123.3	103.7	119.1	123.2	120.0	103.7	65.6	.....	91.7	116.8
1872	110.1	108.5	130.0	125.9	125.3	125.2	114.3	101.9	93.7	.....	97.9	118.4
1873	130.2	97.1	130.0	129.6	127.5	131.7	111.4	106.4	105.8	.....	96.7	129.4
1874	176.7	88.6	73.3	122.2	139.6	132.4	97.1	105.0	98.8	.....	88.8	127.6
1875	131.8	88.8	73.3	170.4	100.0	126.4	75.7	89.9	102.2	.....	91.5	133.9
1876	139.5	79.2	71.7	170.4	102.5	139.9	57.1	96.6	92.3	.....	94.9	130.2
1877	134.9	115.9	73.3	140.7	115.8	125.8	122.9	95.7	96.7	.....	91.7	130.8
1878	138.8	65.1	70.0	125.9	117.0	123.5	94.3	112.5	84.8	.....	95.9	134.3
1879	109.3	71.6	68.3	103.7	89.6	116.0	74.3	82.0	75.9	.....	82.1	116.8
1880	114.7	83.7	86.7	118.5	106.2	109.1	88.6	85.2	85.7	.....	83.6	109.5
1881	93.0	74.2	61.7	107.4	98.1	133.8	85.7	64.7	86.3	.....	76.3	111.3
1882	76.0	79.8	55.0	155.6	100.2	110.7	92.1	70.0	82.3	.....	75.3	113.2
1883	61.2	70.6	46.7	163.0	92.6	133.7	82.9	63.1	78.0	.....	84.4	109.7
1884	80.6	68.0	56.7	140.7	88.3	120.7	77.1	73.5	74.9	.....	88.1	102.8
1885	71.3	44.8	48.3	151.9	72.3	112.9	58.6	75.8	71.8	.....	74.5	104.2
1886	65.1	60.4	57.5	137.0	68.5	94.8	61.4	73.4	70.5	.....	68.9	93.6
1887	100.8	45.8	45.0	133.3	79.2	100.3	85.7	75.1	87.2	.....	61.1	88.5
1888	126.4	59.4	40.0	163.0	69.6	97.9	77.1	41.5	76.4	.....	59.5	88.5
1889	131.0	60.4	43.3	148.1	68.7	101.2	72.1	42.3	71.5	.....	65.6	112.8
1890	141.1	43.4	38.3	148.1	67.5	109.9	75.0	64.2	82.7	.....	66.0	111.6
1891	131.0	45.8	43.3	163.0	73.8	115.4	85.7	35.4	79.8	.....	69.7	105.8
1892	140.7	52.3	37.5	163.0	83.4	119.3	74.3	50.6	74 9	.....	62.2	104.0
1893	135.7	49.3	41.7	155.6	58.1	108.5	78.6	58.8	74.1	.....	60.9	91.7

TABLE 58.—*Relative prices in England compared with 1860*—Concluded.

[1860=100.]

Year.	Tallow.	Leather.	Copper.	Iron.	Lead.	Tin.	Cotton.	Cotton yarn.	Cotton cloths.	Cotton, Pernambuco.	Average of all articles.
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	103.0	94.0	91.5	102.1	98.3	98.6	116.3	102.0	100.8	105.9	102.0
1862	88.4	96.0	96.0	98.2	92.0	87.1	184.7	120.4	103.8	152.9	109.0
1863	76.7	96.0	86.6	102.1	98.9	83.5	378.3	244.9	177.5	276.5	135.9
1864	70.7	96.0	96.4	118.4	95.5	81.3	415.4	277.6	224.9	329.4	144.8
1865	70.7	94.0	79.5	112.1	90.9	71.2	422.7	257.1	200.7	317.6	135.5
1866	84.5	94.0	94.6	111.7	97.7	74.8	348.6	244.9	181.0	258.8	133.0
1867	76.7	92.0	76.8	98.4	90.9	61.2	252.3	171.4	141.5	185.3	115.3
1868	74.1	98.0	67.9	94.6	88.6	69.1	118.8	93.9	89.6	86.8	99.3
1869	84.5	98.0	69.6	93.5	86.4	79.9	178.5	118.4	103.3	125.3	105.0
1870	79.3	92.0	65.2	99.3	86.4	84.9	187.9	122.4	105.6	139.7	105 5
1871	77.0	92.0	63.4	97.4	81.8	97.1	132.9	110.2	92.9	102.9	100.8
1872	84.5	96.0	80.4	113.0	86.4	110.1	140.8	118.4	98.9	116.2	108.8
1873	74.1	104.0	82.6	155.0	117.0	105.0	138.4	122.4	99.9	122.1	114.6
1874	70.7	106.2	82.1	183.4	110.8	87.8	122.1	106.2	90.8	102.9	110.2
1875	81.9	110.0	82.1	149.3	109.1	72.7	111.7	96.9	91.3	92.6	103.9
1876	91.4	106.0	78.6	132.4	104.0	61.2	114.1	98.0	87.9	102.9	102.4
1877	77.6	104.0	72.8	112.4	100.0	58.3	97.4	93.9	90.4	80.1	101 5
1878	68.1	108.0	63.4	98.1	86.9	52.2	95.7	82.7	79.7	79.4	94.1
1879	62.9	104.0	56.7	83.8	66.5	47.1	77.2	69.4	69.3	69.1	80.7
1880	77.6	104.0	63.6	101.6	89.2	67.6	114.5	87.8	73.9	85.3	92.2
1881	67.7	104.0	59.2	86.7	69.3	67.6	109.5	87.8	80.1	83.1	86 1
1882	78.4	100.0	67.4	96.5	69.9	82.4	104.0	87.8	79.0	80.1	88.4
1883	84.5	100.0	62.9	88.6	65.9	70.5	90.6	79.6	72.5	75.0	84.6
1884	88.8	100.0	55.6	84.6	55.7	63.7	92.9	78.6	69.1	72.1	82.5
1885	71.6	104.0	47.3	92.3	51.1	55.6	94.8	79.6	66.4	73.5	77.5
1886	60.3	100.0	39.3	80.8	57.4	69.8	82.0	66.3	69.0	63.2	73.3
1887	53.4	98.0	38.2	76.9	58.8	74.6	80.3	68.4	68.2	62.6	75.3
1888	55.2	96.0	71.9	82.7	71.9	106.5	87.2	71.4	69.1	68.4	80.0
1889	66.4	94.0	70.3	86.5	66.2	73.0	89.9	74.5	70.1	70.6	79.6
1890	66.4	94.0	50.2	112.4	65.1	74.1	93.5	73.5	71.9	80.1	82.3
1891	67.2	94.0	52.2	98.9	60.8	.....	81.5	77.6	70.9	67.6	81 0
1892	74.1	94.0	43.1	87.1	52.3	64.9	70.5	65.3	67.1	57.4	76.0
1893	77.6	92.0	45.5	86.0	46.0	69.1	82.6	67.3	68.7	62.6	76.7

It will be observed that the average price for 1891 is 81, much below that for the United States, which, by the same method of simple average, was 92.2. Such a difference may be due to a difference in the methods or a difference in the prices. The prices of different groups may vary, or with approximately the same prices a varied grouping may bring about a divergent result. In order to test this as nearly as may be, the English prices may be classified in the same way as the American, and their influence in the total as well as their group prices may be noted. This is carried out in the following table:

TABLE 59.—*Comparison of Economist average with simple average of the United States.*

Group.	United States.			England.		
	Number.	Relative influence.	Group price.	Number.	Relative influence.	Group price.
Food	53	23.77	103.9	5	23.81	81.1
Cloths and clothing	28	12.57	81.1	8	38.09	74.1
Fuel and lighting	10	4.47	91.0	.....	.....	.....
Metals and implements	54	24.22	74.9	4	19.05	70.1
Lumber and building materials	35	15.70	122.3	1	4.76	105.9
Drugs and chemicals	18	8.07	96.3	.....	.....	.....
House furnishing goods	15	6.73	70.1	.....	.....	.....
Miscellaneous	10	4.47	95.1	3	14.29	100.0
Total	223	100.00	92.2	21	100.00	81.8

Let us now consider the above figures group by group. Food has in each average approximately the same importance, but the price in the United States is much above the average, and in England nearly identical with the average. This of itself would place the result higher for the United States. Cloths and clothing have in England a greater influence in the average at a less price, both groups being below the general average. Fuel and lighting is not represented on the English list. In both lists lumber and building materials are higher than the average, but the highest price is in the United States, where the group forms 15.70 of the total as against 4.76 per cent in England. The above considerations are somewhat offset, but by no means outweighed, by the fact that drugs and chemicals and house furnishing goods not represented in England depress the United States average, while miscellaneous articles tend to elevate the average of England more than the United States.

It is clear, then, that there are differences in price as well as method. The most noticeable is in the group food. This is due largely to the composition of the group, as the high-priced meats and fish occupy a larger place in the American group than in the English. As to cloths and clothing, the English figures include mostly textile materials rather than finished products. The difference in metals and implements is inconsiderable.

These differences in price are only accentuated when the articles are given their importance in consumption. This is shown in the following table:

TABLE 60.—*Comparison of Economist average with weighted average of the United States.*

Group.	Proportion of Economist total.	Proportion of 68.60 per cent of total expenditure
Meat	4.47	17.5
Other food	19.34	42.2
Total food	23.81	59.7
Clothing	38.09	22.3
Fuel		7.3
All other	38.10	10.7
Total	100.00	100.0

It certainly is not surprising that a combination of prices based on the latter proportions gives a different result from that which is founded upon the former, especially when it is remembered that in the second series where it predominates food is high priced, while it is scarcely above the average in the first. The working together of differences of price and varied groupings is clearly shown in the divergence between 81.0, the English figure, and 94.4, the American result.

To measure the extent to which differences in prices bring about discrepancies in the results we must compare the United States and England upon exactly the same basis. If from the various tables of our report we collect the prices of the twenty-two articles which are contained in the English list, we find that the simple average of their relative prices gives us 83.4, or a figure only slightly in excess of the English result. This practical accord shows us that by Economist methods the prices in both England and the United States stand at about the same point with relation to 1860.

We can not escape the criticism that if Economist methods of ascertaining the general level of prices be correct our own method falls short

of portraying the true state of affairs, since the relative price of 1891 is 83.4 instead of 94.4. There is plainly a difference of principle. The Economist takes into account only the great wholesale markets and considers every article as equally worthy of consideration in making what might be termed a composite photograph of the market. On the other hand, our investigation takes as its starting point the consumption of families. It includes, therefore, tenfold the variety of articles, and so nearly as possible in the form in which they are purchased by the consumer, and assigns, further, to each article the importance it occupies in the family budget.

It seems only necessary to state the principles which we have adopted in order to secure for them general approval. On the other hand, the value of such calculations as those of the Economist is not to be underrated. Rarely can such a rich and varied material be brought together as forms the subject of this report, and where it is lacking the somewhat summary methods of the Economist have their function. With this in view we shall at a later stage of the report make a comparison of prices in several countries based upon the Economist method.

The Economist figures have formed the object of a great variety of studies by English economists. They have not, however, passed without criticism. The facts that each article is given an equal weight and that the number of articles is very restricted have both led to attempts at improvement. The latter evil could only be remedied by enlarging the scope of the figures, while a new method of combination might mitigate the former.

CALCULATIONS OF MR. PALGRAVE.

A very noteworthy attempt to correct the Economist figures was made by Mr. R. H. Inglis Palgrave in a memorandum submitted by him to the Royal Commission on the Depression of Trade and Industry. He there again calls attention to the absurdity of classing indigo as equal to either sugar or meat. His method, already noted in this report, is to give each relative price an importance proportioned to its consumption. He obtains the national annual consumption of each product from its production and imports less the exports. In this way he obtains a series of figures representing the importance in each year of the commerce of each commodity. Using these in connection with the Economist figures, he obtained the following results for the years 1865 to 1885, upon the basis of 1865 to 1869 as 100. (*a*)

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a For the method of calculation reference is made to Table 21 of this report.

TABLE 61.—*Comparison of simple and weighted averages of Economist prices.*

Year.	Total relative prices of Economist without regard to relative importance of commodities.		Total relative prices of Economist grouped according to relative importance of commodities.	
1865	2,434	110.6	2,366	107.5
1866	2,449	111.3	2,434	110.6
1867	2,156	98.0	2,179	99.0
1868	1,982	90.1	2,058	93.5
1869	1,979	90.0	1,963	89.2
Average	2,200	100	2,200	100
1870	1,995	91	1,975	90
1871	1,981	90	2,046	93
1872	2,132	97	2,197	100
1873	2,237	102	2,298	104
1874	2,207	100	2,378	108
1875	2,098	95	2,125	97
1876	2,044	93	2,186	99
1877	2,064	94	2,205	100
1878	1,910	87	2,081	95
1879	1,676	76	1,805	82
1880	1,918	87	1,967	89
1881	1,782	81	2,054	93
1882	1,830	83	1,908	87
1883	1,755	80	1,924	88
1884	1,660	75	1,750	80
1885	1,550	70	1,669	76

An effort to continue the above table to the present day has been unsuccessful. The determination of the annual consumption by the methods followed is a matter of considerable difficulty. Application has been made to Mr. Palgrave for any continuation of the tables which he might have prepared, but he informs us that he has never published any supplement to the figures quoted, nor prepared the calculations.

An examination of the table shows a substantial agreement of the two columns as regards direction. Nor is the difference of level very great. It is, however, to be noted that the weighted average stands generally some points higher than the simple average. The same observation holds good for the calculations which we have made for the United States, both in the present report and in that upon retail prices and wages.

While the Economist figures have been widely used, their defects have been recognized as well as their merits. The desire for a broader basis of calculation than the 22 articles above noted led to the preparation of the index numbers of Mr. Sauerbeck with which we must now deal.

PRICES COLLECTED BY MR. SAUERBECK.

This important series of price quotations has been prepared by Mr. Augustus Sauerbeck, a wool broker, of the firm of Schwarze & Co., London. He has published them from time to time in the Journal of the Statistical Society. The first publication occurred in 1886, and the work has been brought down to date in subsequent issues of the Journal.

Mr. Sauerbeck bases his figures on quotations collected under his personal supervision either from the most trustworthy trade journals or from direct reports of leading firms. His own firm, for example, furnishes figures for wool, while Ellison & Co., of Manchester, furnish cotton quotations. The earlier prices are obtained from trade journals, but during the past ten years they have been carefully collected by Mr. Sauerbeck in the manner described. The yearly prices are the averages of twelve monthly or fifty-two weekly quotations. The prices of Mr. Sauer-

beck embrace some 45 articles, and are given in Table 62. Mr. Sauerbeck has made the figures which he has collected the basis of relative price calculations. His index number, based upon 45 different articles, and taking the period 1867–'77 as 100, is given in Table 63 following the prices.

TABLE 62.—*Wholesale prices of 56 commodities in England from 1846 to 1891, with equivalents in United States money and measures.*

Year.	1. Wheat, English Gazette.		2. Wheat, American.		3. Flour, town made, white.		4. Barley, English Gazette.		5. Oats, English Gazette.		6. Maize, American mixed.	
	Per 8 bushels.	Per bushel.	Per 8 bushels.	Per bushel.	Per 280 pounds.	Per pound.	Per 8 bushels.	Per bushel.	Per 8 bushels.	Per bushel.	Per 8 bushels.	Per bushel.
	s. d.		s. d.		s. d.		s. d.		s. d.		s. d.	
1846	54 8	$1.612	.....	.....	51	$0.044	32 8	$0.963	23 8	$0.698	39 0	$1.150
1847	69 9	2.057	.....	.....	58	.050	44 2	1.302	28 8	.845	45 0	1.327
1848	50 6	1.489	.....	.....	46	.040	31 6	.929	20 6	.604	32 0	.944
1849	44 3	1.305	.....	.....	41	.036	27 9	.818	17 6	.516	28 0	.826
1850	40 3	1.187	.....	.....	37	.032	23 5	.690	16 5	.484	28 0	.826
1851	38 6	1.135	.....	.....	36	.031	24 9	.730	18 7	.548	28 0	.826
1852	40 10	1.204	.....	.....	39	.034	28 6	.840	19 1	.563	29 0	.855
1853	53 3	1.570	.....	.....	52	.045	33 2	.978	21 0	.619	35 0	1.032
1854	72 5	2.135	.....	.....	65	.056	36 0	1.062	27 11	.823	43 0	1.268
1855	74 8	2.202	.....	.....	68	.059	34 9	1.025	27 5	.808	43 0	1.268
1856	69 2	2.039	.....	.....	62	.054	41 1	1.211	25 2	.742	35 0	1.032
1857	56 4	1.661	.....	.....	51	.044	42 1	1.241	25 0	.737	37 0	1.091
1858	44 2	1.302	.....	.....	40	.035	34 8	1.022	24 6	.723	33 0	.973
1859	43 9	1.290	.....	.....	41	.036	33 6	.988	23 2	.683	31 0	.914
1860	53 3	1.570	.....	.....	48	.042	36 7	1.079	24 5	.720	35 0	1.032
1861	55 4	1.632	.....	.....	52	.045	36 1	1.064	23 9	.700	37 0	1.091
1862	55 5	1.634	.....	.....	47	.041	35 1	1.034	22 7	.666	31 0	.914
1863	44 9	1.320	.....	.....	41	.036	33 11	1.000	21 2	.624	29 0	.855
1864	40 2	1.184	.....	.....	38	.033	29 11	.882	20 1	.592	29 0	.855
1865	41 10	1.234	.....	.....	39	.034	29 9	.877	21 10	.644	30 0	.885
1866	49 11	1.472	.....	.....	45	.039	37 5	1.103	24 7	.725	32 0	.944
1867	64 5	1.899	.....	.....	57	.050	40 0	1.179	26 0	.767	41 0	1.209
1868	63 9	1.880	.....	.....	54	.047	43 0	1.268	28 1	.828	39 0	1.150
1869	48 2	1.420	.....	.....	40	.035	39 5	1.162	26 0	.767	31 0	.914
1870	46 10	1.381	.....	.....	41	.036	34 7	1.020	22 11	.676	30 0	.885
1871	56 8	1.671	56 0	$1.651	44	.038	36 2	1.066	25 2	.742	33 0	.973
1872	57 0	1.681	59 0	1.740	46	.040	37 5	1.103	23 2	.683	29 0	.855
1873	58 8	1.730	63 0	1.858	51	.044	40 5	1.192	25 5	.749	30 0	.885
1874	55 8	1.641	57 0	1.681	47	.041	44 11	1.324	28 10	.850	38 0	1.120
1875	45 2	1.332	48 0	1.415	40	.035	38 5	1.133	28 8	.845	34 0	1.003
1876	46 2	1.361	48 0	1.415	41	.036	35 2	1.037	26 3	.774	26 9	.799
1877	56 9	1.673	55 0	1.622	45	.039	39 8	1.170	25 11	.764	27 3	.804
1878	46 5	1.369	48 0	1.415	38	.033	40 2	1.184	24 4	.717	25 0	.737
1879	43 10	1.292	48 0	1.415	36	.031	34 0	1.003	21 9	.641	23 9	.700
1880	44 4	1.307	51 0	1.504	39	.034	33 1	.976	23 1	.681	25 9	.758
1881	45 4	1.367	52 0	1.533	40	.035	31 11	.941	21 9	.641	27 9	.818
1882	45 1	1.329	48 6	1.430	40	.035	31 3	.919	21 10	.644	31 0	.914
1883	41 7	1.226	45 0	1.327	36	.031	31 10	.939	21 5	.631	27 9	.818
1884	35 8	1.052	36 6	1.076	31	.027	30 8	.904	20 3	.597	25 3	.745
1885	32 10	.968	35 0	1.032	29	.025	30 1	.887	20 7	.607	23 0	.678
1886	31 0	.914	35 0	1.032	28	.024	26 7	.784	19 0	.560	21 0	.619
1887	32 6	.958	34 0	1.003	28	.024	25 4	.747	16 3	.479	21 3	.627
1888	31 10	.939	37 0	1.091	30	.026	27 10	.821	16 9	.494	23 6	.693
1889	29 9	.877	35 0	1 032	29	.025	25 10	.762	17 9	.523	20 6	.590
1890	31 11	.941	35 6	1.047	29	.025	28 8	.845	18 7	.548	20 6	.590
1891	37 0	1.091	40 0	1.179	33	.029	28 2	.831	20 0	.590	28 0	.826

TABLE 62.—*Wholesale prices of 56 commodities in England from 1846 to 1891, with equivalents in United States money and measures*—Continued.

Year.	7. Potatoes, good English.		8. Rice, Rangoon, cargoes to arrive.		9. Beef, prime.		10. Beef, middling.		11. Mutton, prime.	
	Per 2,240 pounds.	Per bushel.	Per 112 pounds.	Per pound.	Per 8 pounds.	Per pound.	Per 8 pounds.	Per pound.	Per 8 pounds.	Per pound.
	s.		*s. d.*		*d.*		*d.*		*d.*	
1846	125	$0.815	13 6	$0.029	40	$0.101	34	$0.086	53	$0.134
1847	160	1.043	15 6	.034	45	.114	40	.101	55	.139
1848	120	.782	8 9	.019	41	.104	37	.094	53	.134
1849	95	.619	7 9	.017	38	.096	32	.081	44	.112
1850	85	.554	8 6	.018	36	.091	30	.076	43	.109
1851	70	.456	8 0	.017	37	.094	30	.076	44	.112
1852	90	.587	9 0	.020	37	.094	31	.079	44	.112
1853	135	.880	10 9	.023	45	.114	39	.099	54	.137
1854	120	.782	12 3	.027	50	.127	43	.109	54	.137
1855	95	.619	13 0	.028	50	.127	44	.112	53	.134
1856	85	.554	10 0	.022	48	.122	41	.104	53	.134
1857	115	.750	10 3	.022	48	.122	42	.106	54	.137
1858	100	.652	7 6	.016	47	.119	41	.104	51	.129
1859	90	.587	8 6	.018	48	.122	41	.104	53	.134
1860	110	.717	10 3	.022	50	.127	42	.106	56	.142
1861	115	.750	10 6	.023	49	.124	42	.106	55	.139
1862	120	.782	10 6	.023	46	.117	39	.099	53	.134
1863	90	.587	11 0	.024	47	.119	41	.104	54	.137
1864	75	.489	9 6	.021	50	.127	44	.112	55	.139
1865	85	.554	10 9	.023	53	.134	46	.117	64	.162
1866	85	.554	12 0	.026	53	.134	47	.119	61	.155
1867	130	.847	11 9	.026	52	.132	45	.114	55	.139
1868	125	.815	11 0	.024	50	.127	43	.109	51	.129
1869	85	.554	9 6	.021	55	.139	46	.117	58	.147
1870	90	.587	9 6	.021	56	.142	48	.122	58	.147
1871	80	.521	9 10	.021	60	.152	53	.134	63	.160
1872	140	.912	10 0	.022	59	.150	52	.132	67	.170
1873	160	1.043	9 6	.021	65	.165	56	.142	71	.180
1874	105	.684	10 0	.022	62	.157	51	.129	62	.157
1875	105	.684	8 3	.018	64	.162	55	.139	71	.180
1876	135	.880	9 0	.020	62	.157	52	.132	72	.183
1877	130	.847	10 0	.022	61	.155	49	.124	69	.175
1878	155	1.010	10 0	.022	61	.155	49	.124	68	.172
1879	130	.847	9 7	.021	55	.139	45	.114	64	.162
1880	130	.847	9 1	.020	58	.147	49	.124	66	.167
1881	85	.554	8 4	.018	56	.142	48	.122	69	.175
1882	95	.619	7 5	.016	60	.152	51	.129	72	.183
1883	105	.684	8 1	.018	61	.155	51	.129	73	.185
1884	75	.489	7 8	.017	58	.147	49	.124	64	.162
1885	75	.489	7 0	.015	52	.132	44	.112	56	.142
1886	80	.521	6 7	.014	49	.124	40	.101	62	.157
1887	85	.554	6 10	.015	43	.109	36	.091	52	.132
1888	80	.521	7 1	.015	48	.122	39	.099	58	.147
1889	80	.521	7 3	.016	47	.119	39	.099	63	.160
1890	70	.456	7 3	.016	47	.119	38	.096	59	.150
1891	92	.600	7 11	.017	47	.119	40	.101	53	.134

TABLE 57.—*Relative prices in England—The Economist index number*—Concluded.

[1845 to 1850=100.]

Year.	13. Tallow: St. Petersburg, first Y. C.	14. Leather: English butts, 25–36.	15. Copper: tough cake.	16. Iron: British bars and Swedish bars.	17. Lead: English pig.	18. Tin: English bars.	19. Cotton, raw: upland, middling; upland, middling, fair; Surat, Dholerah, fair; and Pernambuco, fair.	20. Cotton yarn: mule No. 40, fair, second quality.	21. Cotton, cloths: printers, 26-inch, 66 reed, 20 yards, and Gold-end shirtings, 40-inch, 66 reed, 37½ yards.	22. Cotton, raw: Pernambuco, fair.	Total of all articles.	Average for all articles.
1845–1850.....	100	100	100	100	100	100	100	100	100	100	2,200	100
1851.....	86	100	95	90	100	98	86	127	118	106	2,293	104
1852.....	*84*	*97*	*101*	*88*	*97*	*105*	.....	*92*	*97*	*74*	*1,885*	*93*
1853.....	*98*	*98*	*116*	*106*	*137*	*120*	.....	*101*	*109*	*82*	*2,167*	*108*
1854.....	*136*	*97*	*143*	*111*	*134*	*147*	.....	*97*	*104*	*88*	*2,445*	*122*
1855.....	*147*	*103*	*145*	*107*	*151*	*157*	.....	*90*	*90*	*77*	*2,357*	*118*
1856.....	*155*	*117*	*145*	*138*	*149*	*149*	.....	*95*	*95*	*81*	*2,459*	*123*
1857.....	*141*	*153*	*153*	*122*	*131*	*167*	.....	*119*	*101*	*97*	*2,645*	*132*
1858.....	118	130	121	110	131	115	73	112	99	86	2,612	119
1859.....	116	116	121	100	125	145	*97*	124	112	*97*	*2,304*	*115*
1860.....	131	136	127	90	125	151	*85*	125	124	*103*	*2,426*	*121*
1861.....	136	130	116	115	123	160	86	128	111	109	2,727	124
1862.....	116	133	121	77	115	141	140	151	112	157	2,878	131
1863.....	101	133	110	90	122	130	314	208	222	284	3,492	159
1864.....	93	133	122	105	114	130	460	349	277	329	3,787	172
1865.....	93	131	101	95	115	115	363	323	252	325	3,575	163
1866.....	112	131	122	100	123	122	383	308	222	267	3,564	162
1867.....	106	128	98	88	114	99	227	215	178	191	3,024	137
1868.....	98	136	86	86	111	112	100	118	114	181	2,682	122
1869.....	111	136	89	85	109	129	155	149	131	189	2,666	121
1870.....	105	128	83	88	109	138	173	154	135	144	2,689	122
1871.....	102	128	81	87	103	160	118	138	118	106	2,590	118
1872.....	111	133	103	99	109	177	141	149	125	119	2,835	129
1873.....	98	144	105	141	124	171	132	154	126	126	2,947	134
1874.....	93	147	104	167	139	143	120	136	116	106	2,891	131
1875.....	108	153	105	138	137	118	111	122	117	95	2,778	126
1876.....	120	147	100	125	131	99	107	123	111	106	2,711	123
1877.....	102	144	93	104	126	95	94	108	113	82	2,715	123
1878.....	89	150	81	91	109	85	93	104	101	82	2,529	115
1879.....	83	146	72	77	84	77	73	88	81	71	2,225	101
1880.....	102	144	81	92	112	109	110	110	95	88	2,538	115
1881.....	89	144	75	79	87	110	105	110	101	86	2,376	108
1882.....	103	139	86	86	88	134	102	110	99	82	2,435	111
1883.....	111	139	80	78	83	114	89	100	92	78	2,342	106
1884.....	113	139	71	69	70	104	92	99	88	74	2,221	101
1885.....	87	144	60	75	65	90	93	100	80	75	2,098	95
1886.....	70	142	50	66	72	113	80	83	85	65	2,023	92
1887.....	60	136	48	62	74	120	82	86	84	68	2,059	94
1888.....	73	133	91	67	90	173	90	90	87	70	2,230	101
1889.....	87	130	89	70	76	118	91	93	88	72	2,187	99
1890.....	75	130	64	109	82	120	92	92	91	75	2,236	102
1891.....	80	130	66	87	76	111	82	97	89	70	2,240	102
1892.....	105	130	55	78	66	106	73	82	84	59	2,133	97
1893.....	107	128	58	78	58	112	83	85	85	64	2,120	96

In the foregoing table we may observe a certain similarity in tendencies with those which were found in the United States. Attention is particularly called at this point to the fall of prices in 1892 and 1893 as compared with 1891. A similar fall in the United States was revealed by the supplementary tables which have just been discussed. On the other hand it needs but a glance at the foregoing table to show the wide divergence between the methods here employed and those followed in this report. We have here a simple average of 22 articles, while the list used for the United States contained 223. If the number of articles

TABLE 62.—*Wholesale prices of 56 commodities in England from 1846 to 1891, with equivalents in United States money and measures*—Continued.

Year.	17. Sugar, beet, German (or French), 88 per cent f. o. b.		18. Sugar, Java, floating cargoes.		19. Coffee, Ceylon, plantation, low middling.		20. Coffee, Rio, good channel.		21. Tea, Congou, common.	
	Per 112 pounds.	Per pound.	Per 112 pounds.	Per pound.	Per 112 pounds.	Per pound.	Per 112 pounds.	Per pound.	Per pound.	Per pound.
	s. *d.*		*s.* *d.*		*s.*		*s.*		*d.*	
1846	.....	.....	33 0	$0.072	52	$0.113	32	$0.070	9½	$0.188
1847	.....	.....	28 0	.061	49	.106	33	.072	9	.183
1848	.....	.....	21 0	.046	40	.087	29	.063	7½	.157
1849	.....	.....	24 0	.052	47	.102	36	.078	8½	.172
1850	.....	.....	25 0	.054	56	.122	48	.104	11	.223
1851	.....	.....	26 0	.056	50	.109	39	.085	10½	.213
1852	.....	.....	23 0	.050	51	.111	41	.089	8½	.167
1853	.....	.....	26 0	.056	56	.122	46	.100	11½	.228
1854	.....	.....	25 0	.054	55	.119	50	.109	11½	.228
1855	.....	.....	29 0	.063	56	.122	44	.096	9	.183
1856	.....	.....	33 0	.072	58	.126	46	.100	9½	.188
1857	.....	.....	41 0	.089	67	.146	51	.111	13	.264
1858	.....	.....	33 0	.072	63	.137	43	.093	11½	.228
1859	.....	.....	31 0	.067	67	.146	52	.113	14½	.299
1860	.....	.....	32 0	.070	68	.148	60	.130	16½	.330
1861	.....	.....	29 0	.063	69	.150	55	.119	12	.243
1862	.....	.....	28 0	.061	81	.176	60	.130	13½	.274
1863	.....	.....	27 0	.059	81	.176	67	.146	12½	.259
1864	.....	.....	32 0	.070	77	.167	67	.146	11	.223
1865	.....	.....	27 0	.059	78	.169	58	.126	11	.223
1866	.....	.....	28 0	.056	79	.172	51	.111	11½	.238
1867	22 0	$0.048	28 0	.061	76	.165	45	.098	11½	.238
1868	22 6	.049	28 0	.061	71	.154	39	.085	14	.284
1869	24 6	.053	30 0	.065	71	.154	43	.093	13	.264
1870	23 6	.051	30 0	.065	64	.139	45	.098	12	.243
1871	25 6	.055	31 0	.067	67	.146	56	.122	11½	.233
1872	26 6	.058	30 0	.065	79	.172	71	.154	11½	.233
1873	25 0	.054	28 0	.061	100	.217	86	.187	12	.243
1874	24 0	.052	26 6	.058	112	.243	84	.182	11½	.233
1875	22 6	.049	25 0	.054	105	.228	80	.174	11	.223
1876	23 0	.050	26 0	.056	105	.228	74	.161	9½	.193
1877	25 6	.055	30 0	.065	102	.222	77	.167	7½	.157
1878	21 6	.047	25 0	.054	101	.219	62	.135	7½	.157
1879	21 3	.046	24 0	.052	90	.196	58	.126	9	.183
1880	21 6	.047	25 6	.055	87	.189	61	.133	8½	.177
1881	22 0	.048	26 6	.058	80	.174	49	.106	6½	.132
1882	21 6	.047	25 6	.055	65	.141	39	.085	5	.101
1883	20 3	.044	24 6	.053	76	.165	43	.093	5½	.117
1884	13 3	.029	17 6	.038	62	.135	47	.102	6½	.127
1885	14 3	.031	17 6	.038	60	.130	39	.085	6½	.132
1886	11 9	.026	14 3	.031	68	.148	46	.100	6½	.132
1887	12 6	.027	14 6	.032	90	.196	78	.169	5	.101
1888	13 9	.030	16 0	.035	80	.174	64	.139	4	.081
1889	16 6	.036	19 0	.041	95	.206	76	.165	4½	.086
1890	12 6	.027	15 3	.033	101	.219	83	.180	4½	.091
1891	13 6	.029	15 6	.034	101	.219	76	.165	5½	.112

TABLE 62.—*Wholesale prices of 56 commodities in England from 1846 to 1891, with equivalents in United States money and measures*—Continued.

Year.	22. Tea, average import price.		23. Iron, Scotch pig.		24. Iron, bars, common.		25. Copper, Chile, bars.		26. Copper, English tough cake.	
	Per pound.	Per pound.	Per 2,240 pounds.	Per 2,240 pounds.	Per 2,240 pounds.	Per 2,240 pounds.	Per 2,240 pounds.	Per pound.	Per 2,240 pounds.	Per pound.
	d.		*s.* *d.*		£		£		£	
1846	13	$0.264	67 3	$16.364	9½	$46.232	83	$0.180	91	$0.198
1847	13	.264	65 4	15.897	9½	47.448	89	.193	97	.211
1848	12¾	.248	40 4	9.814	7	34.066	78	.169	85	.185
1849	13	.264	45 6	11.071	6½	30.416	77	.167	84	.182
1850	15½	.309	44 2	10.747	5¾	28.591	78	.169	85	.185
1851	14½	.289	39 9	9.672	5½	26.766	78	.169	85	.185
1852	12½	.248	45 1	10.970	6½	30.416	80	.193	97	.211
1853	15½	.309	62 3	15.147	9½	45.015	106	.230	116	.252
1854	15¾	.314	79 8	19.385	10	48.665	115	.250	126	.274
1855	15 5/16	.305	70 9	17.215	8¾	41.365	115	.250	126	.274
1856	14 11/16	.296	72 6	17.641	8¾	43.190	108	.235	119	.259
1857	17 11/16	.353	69 2	16.830	8½	40.149	113	.245	124	.269
1858	16¾	.336	54 4	13.221	7	34.066	98	.213	108	.235
1859	18⅞	.377	51 9	12.592	6½	32.849	98	.213	108	.235
1860	18⅜	.378	53 6	13.018	6¾	31.632	95	.206	105	.228
1861	17⅛	.345	49 3	11.984	6	29.199	89	.193	99	.215
1862	19⅜	.389	53 0	12.896	6½	30.416	87	.189	97	.211
1863	18 7/16	.379	55 9	13.565	7	34.066	86	.187	94	.204
1864	18 11/16	.369	57 3	13.930	8½	40.149	89	.193	101	.219
1865	19⅛	.403	54 9	13.322	7½	37.715	83	.180	92	.200
1866	19 7/16	.391	60 6	14.721	7½	35.282	81	.176	88	.191
1867	18 5/16	.383	53 6	13.018	6¾	32.849	71	.154	78	.169
1868	19 7/16	.391	52 9	12.835	6¾	31.024	70	.152	76	.165
1869	17⅜	.361	53 3	12.957	6¾	32.849	69	.150	75	.163
1870	17⅝	.348	54 4	13.221	7⅜	35.890	65	.141	70	.152
1871	16½	.333	58 11	14.336	7⅜	37.107	69	.150	75	.163
1872	16⅜	.340	101 10	24.779	11	53.532	93	.202	96	.209
1873	16 7/16	.338	117 3	28.530	12½	60.831	84	.182	92	.200
1874	17	.345	87 6	21.291	10½	49.882	79	.172	88	.191
1875	16 13/16	.339	65 9	15.999	8¼	40.757	82	.178	88	.191
1876	16⅜	.333	58 6	14.235	7½	35.282	76	.165	82	.178
1877	15⅝	.324	54 4	13.221	6¾	32.849	68	.148	75	.163
1878	15 10/16	.310	48 5	11.781	5¾	27.374	62	.135	67	.146
1879	14 15/16	.298	47 0	11.436	5½	27.982	58	.126	64	.139
1880	13 15/16	.273	54 6	13.261	6¾	32.849	63	.137	68	.148
1881	12¼	.260	49 1	11.943	5½	27.982	62	.135	67	.146
1882	12⅛	.255	49 4	12.004	6½	30.416	66	.143	71	.154
1883	12⅛	.253	46 9	11.376	5¾	27.982	63	.137	67	.146
1884	11⅜	.239	42 1	10.240	5½	24.941	54	.117	59	.128
1885	12 5/16	.245	41 10	10.179	4¾	23.724	43	.093	47	.102
1886	11 7/16	.239	39 11	9.713	4⅝	22.508	40	.087	44	.096
1887	10⅛	.215	42 3	10.281	4⅝	22.508	44	.096	47	.102
1888	10 9/16	.223	39 11	9.713	4¾	23.724	81	.176	78	.169
1889	10 7/16	.219	47 9	11.619	6½	30.416	51	.111	54	.117
1890	10⅛	.216	49 7	12.065	6⅝	31.024	54	.117	59	.128
1891	10⅛	.218	47 2	11.477	5⅝	27.374	51	.111	55	.119

TABLE 62.—*Wholesale prices of 56 commodities in England from 1846 to 1891, with equivalents in United States money and measures*—Continued.

Year.	27. Tin, Straits.		28. Lead, English pig.		29. Coal, Wallsend, Hetton, in London.		30. Coal, average export price.		31. Cotton, middling upland.	
	Per 2,240 pounds.	Per pound.	Per 2,240 pounds.	Per pound.	Per 2,240 pounds.	Per 2,240 pounds.	Per 2,240 pounds.	Per 2,240 pounds.	Per pound.	Per pound.
	£		£		s. d.		s.		d.	
1846	90	$0.200	19	$0.041	18 0	$4.380	7 9/10	$1.866	4 7/8	$0.099
1847	87	.189	18 3/4	.041	20 6	4.988	7 1/2	1.898	6 1/8	.124
1848	78	.169	17	.037	18 0	4.380	7 3/10	1.900	4 1/2	.084
1849	77	.167	15 3/4	.034	17 6	4.258	7 5/10	1.871	5 1/8	.104
1850	78	.169	17 1/4	.039	17 0	4.137	7 3/10	1.864	7	.142
1851	82	.178	17 1/4	.037	16 0	3.893	7 1/10	1.827	5 1/2	.112
1852	85	.185	17 1/4	.039	16 6	4.015	7 7/10	1.835	5 3/8	.108
1853	113	.245	24	.052	22 0	5.353	8 4/10	1.986	5 3/4	.117
1854	116	.252	24	.052	23 6	5.718	9 2/10	2.402	5 3/8	.109
1855	115	.250	23 1/2	.051	22 0	5.353	9 1/10	2.392	5 3/4	.114
1856	133	.289	25	.054	18 6	4.502	9 1/10	2.338	6 3/8	.128
1857	134	.291	24 1/4	.053	18 6	4.502	9 1/8	2.316	7 3/4	.157
1858	117	.254	22 1/4	.048	18 0	4.380	9 2/10	2.270	6 7/8	.140
1859	134	.291	22 1/4	.049	18 6	4.502	9 2/10	2.270	6 3/4	.137
1860	131	.285	22	.048	20 6	4.988	9 3/10	2.205	6 1/4	.127
1861	119	.259	20 1/4	.045	20 0	4.867	9 1/10	2.236	8 5/8	.174
1862	116	.252	20 1/4	.045	18 0	4.380	9 1/10	2.202	17 1/2	.350
1863	126	.261	20 3/4	.045	18 0	4.380	9	2.190	23 1/2	.471
1864	104	.226	21	.046	20 0	4.867	9 1/8	2.307	27 1/8	.558
1865	91	.198	20	.043	20 0	4.867	9 5/10	2.358	19	.385
1866	82	.178	20 1/4	.045	19 6	4.745	10 3/10	2.504	15 1/2	.314
1867	87	.189	19 1/2	.043	20 0	4.867	10 3/10	2.528	10 7/8	.221
1868	95	.206	19 1/2	.042	18 6	4.502	9 1/2	2.414	10 1/2	.213
1869	126	.274	19 1/2	.042	18 6	4.502	9 1/8	2.341	12 1/8	.246
1870	125	.272	18 1/2	.040	18 6	4.502	9 1/2	2.346	9 1/2	.202
1871	134	.291	18 1/2	.040	19 0	4.623	9 1/2	2.385	8 3/8	.174
1872	146	.317	20 1/2	.044	25 6	6.205	15 3/10	3.852	10 3/8	.214
1873	132	.287	23 1/4	.051	32 0	7.786	20 1/8	5.086	9	.183
1874	98	.213	22 1/2	.048	25 0	6.083	17 3/10	4.188	8	.162
1875	84	.182	22 1/4	.049	24 0	5.840	13 1/8	3.231	7 3/8	.150
1876	74	.161	21 1/2	.047	21 0	5.110	10 7/10	2.660	6 1/2	.127
1877	68	.148	20 1/4	.045	20 0	4.867	10 1/10	2.475	6 3/8	.128
1878	61	.133	16 3/4	.036	18 0	4.380	9 1/2	2.302	6 1/4	.124
1879	73	.159	15 1/2	.033	18 0	4.380	8 7/10	2.134	6 3/8	.128
1880	88	.191	16 1/2	.036	15 6	3.772	8 1/2	2.178	6 7/8	.141
1881	93	.202	15 1/2	.033	17 0	4.137	8 7/10	2.183	6 3/8	.131
1882	102	.223	14 3/4	.032	17 0	4.137	9 1/10	2.224	6 5/8	.134
1883	93	.202	12 7/8	.028	18 0	4.380	9 3/10	2.275	5 3/4	.117
1884	81	.176	11 1/2	.024	16 6	4.015	9 5/10	2.260	6	.122
1885	87	.189	11 1/2	.025	16 6	4.015	8 1/2	2.178	5 5/8	.114
1886	98	.213	13 1/2	.029	16 0	3.893	8 3/10	2.056	5 1/8	.104
1887	112	.243	12 7/8	.028	16 0	3.893	8 1/10	2.025	5 1/2	.112
1888	117	.254	13 7/8	.030	16 6	4.015	8 5/8	2.046	5 3/8	.113
1889	93	.202	13	.028	17 6	4.258	10 5/10	2.485	5 7/8	.120
1890	94	.204	13 1/4	.029	19 0	4.623	12 1/8	3.071	6	.122
1891	91	.198	12 1/8	.027	19 0	4.623	12 1/10	2.959	4 11/16	.095

TABLE 62.—*Wholesale prices of 56 commodities in England from 1846 to 1891, with equivalents in United States money and measures*—Continued.

Year.	32. Cotton, fair Dhollerah (Surat).		33. Flax, St. Petersburg, 12-head, best.		34. Flax, Russian, average import.		35. Hemp, manila, fair, roping.		36. Hemp, St. Petersburg, clean.	
	Per pound.	Per pound.	Per 2,240 pounds.	Per pound.	Per 2,240 pounds.	Per pound.	Per 2,240 pounds.	Per pound.	Per 2,240 pounds.	Per pound.
	d.		£		£		£		£	
1846	3½	$0.071	.....	.....	49	$0.106	38	$0.083	33	$0.072
1847	4½	.091	.....	.....	50	.109	39	.085	38	.083
1848	3⅞	.080	.....	.....	39	.085	35	.076	32	.070
1849	3⅞	.079	.....	.....	37	.080	31	.067	30	.065
1850	5¼	.107	.....	.....	42	.091	32	.070	31	.067
1851	4¼	.086	.....	.....	46	.100	44	.096	29	.063
1852	4¼	.086	.....	.....	47	.102	44	.096	32	.070
1853	4⅛	.084	.....	.....	48	.104	44	.096	37	.080
1854	3⅝	.074	.....	.....	57	.124	55	.119	58	.126
1855	4	.081	.....	.....	51	.111	45	.098	47	.102
1856	4¾	.096	.....	.....	44	.096	43	.093	36	.078
1857	5¼	.112	.....	.....	36	.078	32	.070	34	.074
1858	5¼	.112	.....	.....	46	.100	28	.061	29	.063
1859	5	.101	.....	.....	52	.113	25	.054	29	.063
1860	5	.101	.....	.....	50	.109	24	.052	30	.065
1861	6 5/16	.128	.....	.....	48	.104	22	.048	32	.070
1862	12⅞	.261	.....	.....	56	.122	26	.056	36	.074
1863	19¼	.390	.....	.....	54	.117	27	.059	40	.087
1864	21⅛	.426	.....	.....	53	.115	33	.072	35	.076
1865	14½	.294	.....	.....	52	.113	33	.072	31	.067
1866	12	.243	.....	.....	55	.119	46	.100	34	.074
1867	8¾	.177	41	$0.089	55	.119	50	.109	36	.078
1868	8½	.172	48½	.105	52	.113	49	.106	38	.083
1869	9¾	.198	47	.102	52	.113	48	.104	36	.078
1870	8½	.165	45½	.099	50	.109	54	.117	34	.074
1871	5 7/16	.118	41½	.090	45	.098	49	.106	33	.072
1872	7⅛	.152	49	.106	48	.104	48	.104	36	.078
1873	6 2/16	.126	47½	.103	44	.096	43	.093	36	.078
1874	5 1/16	.108	44	.096	42	.091	38	.083	34	.074
1875	5	.101	49½	.108	45	.098	32	.070	34	.074
1876	4½	.091	47	.102	47	.102	30	.065	37	.080
1877	5 3/16	.105	45	.098	43	.093	28	.061	35	.076
1878	4 13/16	.100	39½	.086	40	.097	25	.054	29	.063
1879	5	.101	34	.074	35	.076	27	.059	25	.054
1880	5½	.107	35	.076	40	.097	30	.065	23	.050
1881	4⅝	.089	32½	.071	33	.072	43	.093	24	.052
1882	4 1/16	.087	29½	.064	30½	.066	46	.100	24	.052
1883	3⅞	.079	30	.065	30½	.066	46	.100	26	.056
1884	3 13/16	.080	29½	.064	30½	.067	38	.083	29	.063
1885	4¼	.086	34	.074	35	.076	35	.076	29	.063
1886	3 9/16	.072	35	.076	35	.076	29	.063	29	.063
1887	3 9/16	.072	32	.070	31½	.068	34	.074	29	.063
1888	3¾	.079	29	.063	28	.061	37	.080	26	.056
1889	4⅛	.084	28	.061	28	.061	50	.109	26	.056
1890	3 13/16	.080	27	.059	26	.056	39	.085	26	.056
1891	3½	.066	28	.061	26	.056	33	.070	24	.052

TABLE 62.—*Wholesale prices of 56 commodities in England from 1846 to 1891, with equivalents in United States money and measures*—Continued.

Year.	37. Jute, good medium.		38. Wool, merino, Port Phillip, average fleece.		39. Wool, merino, Adelaide, average grease.		40. Wool, English, Lincoln, half hogs.		41. Silk, Tsatlee.	
	Per 2,240 pounds.	Per pound.	Per pound.	Per pound.	Per pound.	Per pound.	Per pound.	Per pound.	Per pound.	Per pound.
	£		d.		d.		d.		s. d.	
1846	18	$0.039	18	$0.365	.....	.....	13	$0.264	16 0	$3.893
1847	17	.037	16	.324	.....	.....	12	.243	14 0	3.407
1848	15	.033	13	.264	5¼	$0.112	11	.223	13 0	3.163
1849	15	.033	16	.324	7	.142	10	.203	15 0	3.650
1850	16	.035	17	.345	7½	.152	11	.223	19 0	4.623
1851	13	.028	17	.345	7½	.152	12½	.253	18 0	4.380
1852	16	.035	19½	.395	9	.183	13½	.274	18 0	4.380
1853	22	.018	20	.406	9½	.193	16	.324	18 0	4.380
1854	18	.039	18	.365	8¾	.177	15½	.314	16 0	3.893
1855	19	.041	19½	.395	9¼	.188	13	.264	16 0	3.893
1856	18	.039	23	.466	11	.223	16	.324	22 0	5.353
1857	17	.037	23	.466	11½	.233	20½	.416	24 0	5.840
1858	16	.035	22½	.456	11	.223	15½	.317	19 0	4.623
1859	16	.035	23½	.476	11½	.233	18½	.378	21 0	5.110
1860	16	.035	24	.487	12	.243	20½	.408	23 0	5.597
1861	17½	.038	22	.446	10½	.213	19½	.395	20 0	4.867
1862	21	.046	22	.446	10½	.213	20½	.416	21 0	5.110
1863	27	.059	22	.446	10¾	.218	22½	.459	21 0	5.110
1864	25½	.055	23	.466	11½	.228	27½	.555	22 0	5.353
1865	19½	.042	22½	.456	10¾	.218	25¾	.522	27 0	6.570
1866	22	.048	23½	.476	11¾	.238	23½	.476	28 0	6.813
1867	19½	.042	21½	.436	10	.203	18½	.383	27 0	6.570
1868	19¼	.042	20	.406	8⅝	.175	17½	.355	25 0	6.083
1869	19	.041	17	.345	7½	.152	18½	.368	26 0	6.327
1870	22¼	.048	17	.345	7⅝	.155	16¾	.340	28 0	6.813
1871	23½	.051	21	.426	10¼	.205	21⅜	.433	27 0	6.570
1872	20½	.045	26	.527	12⅝	.256	25⅝	.520	26 0	6.327
1873	18	.039	25	.507	11¾	.238	24¼	.497	21 9	5.292
1874	18	.039	23½	.476	11½	.233	20¾	.421	17 0	4.137
1875	16½	.036	22	.446	10⅝	.216	19¾	.400	15 9	3.832
1876	16½	.036	20½	.411	9½	.185	17⅜	.352	21 0	5.110
1877	17½	.038	20½	.411	9½	.185	16½	.330	20 0	4.867
1878	17	.037	20	.406	9⅜	.185	15	.304	16 6	4.015
1879	16½	.036	18⅝	.380	8½	.172	12½	.253	16 0	3.893
1880	18¾	.041	21½	.436	10⅝	.216	15½	.307	15 0	3.650
1881	18½	.040	19½	.395	9½	.188	12⅝	.251	15 9	3.832
1882	15	.033	19¾	.400	9	.183	11½	.228	15 9	3.832
1883	14½	.031	19	.385	8½	.172	10	.203	15 9	3.832
1884	13½	.029	18½	.370	8⅛	.165	10	.203	14 6	3.528
1885	12	.026	16½	.335	6⅞	.137	9⅞	.200	12 9	3.102
1886	11½	.025	15½	.314	6⅝	.134	10	.203	13 9	3.346
1887	12½	.027	15¾	.319	7	.142	10⅝	.216	14 6	3.528
1888	13½	.029	15½	.319	7	.142	10⅜	.210	13 0	3.163
1889	15	.033	17½	.355	8½	.167	11	.223	13 6	3.285
1890	13½	.029	16	.324	7½	.152	11	.223	14 0	3.407
1891	13	.028	14½	.299	6⅝	.140	9¾	.198	13 0	3.163

TABLE 62.—*Wholesale prices of 56 commodities in England from 1846 to 1891, with equivalents in United States money and measures*—Continued.

Year.	42. Hides, River Plate, dry.		43. Hides, River Plate, salted.		44. Leather, cro[illegible] hides, 30–45 pounds.		45. Tallow, St. Petersburg, Y. C.		46. Tallow, town.	
	Per pound.	Per pound.	Per pound.	Per pound.	Per pound.	Per pound.	Per 112 pounds.	Per pound.	Per 112 pounds.	Per pound.
	d.		*d.*		*d.*		*s.*		*s.* *d.*	
1846	6½	$0.132	.....	.....	11	$0.222	44	$0.096	.....	.....
1847	5⅞	.119	.....	.....	10½	.213	48	.104	.....	.....
1848	4¾	.097	.....	.....	9⅝	.198	47	.102	.....	.....
1849	4⅝	.094	.....	.....	9½	.193	39	.085	.....	.....
1850	4⅞	.099	.....	.....	9½	.193	37	.080	.....	.....
1851	5¼	.117	.....	.....	10	.203	38	.083	.....	.....
1852	5⅛	.112	.....	.....	9½	.193	39	.085	.....	.....
1853	6⅛	.129	.....	.....	12½	.248	51	.111	52 0	$0.115
1854	7⅛	.150	.....	.....	13½	.274	65	.141	66 0	.143
1855	8¼	.177	6	$0.122	13½	.274	57	.124	58 0	.126
1856	10¼	.218	8	.162	14½	.294	53	.115	54 0	.117
1857	13⅛	.274	8½	.172	19½	.390	58	.126	59 0	.128
1858	11	.223	7	.142	15	.304	52	.113	54 0	.117
1859	11¼	.228	8	.162	15½	.319	56	.122	57 0	.124
1860	11½	.233	8	.162	17½	.350	56	.122	57 0	.124
1861	10	.203	7	.142	15	.304	54	.117	55 0	.119
1862	9¼	.188	6½	.132	14½	.294	47	.102	48 0	.104
1863	8	.162	5¾	.117	14½	.294	43	.093	45 0	.098
1864	7¾	.157	5¾	.117	14	.284	41	.089	43 0	.093
1865	7¼	.147	5½	.112	14	.284	44	.096	46 0	.100
1866	7	.142	5½	.112	14½	.294	45	.098	47 0	.102
1867	7	.142	5½	.112	14	.284	44	.096	45 0	.098
1868	7¾	.157	6	.122	14½	.294	46	.100	47 0	.102
1869	8	.162	5½	.112	14½	.294	46	.100	47 0	.102
1870	8¼	.167	5¾	.117	14½	.294	44	.096	45 0	.098
1871	9	.183	6½	.132	15	.304	45	.098	46 0	.100
1872	10½	.213	7½	.152	17½	.355	48	.104	45 0	.098
1873	11	.223	8¼	.167	18½	.370	43	.093	44 0	.096
1874	10½	.213	8	.162	17½	.355	42	.091	41 0	.089
1875	9½	.188	8	.162	17½	.350	46	.100	46 0	.100
1876	7¾	.152	7	.142	16½	.340	47	.102	44 0	.096
1877	8½	.172	7¾	.157	16	.324	43	.093	42 0	.091
1878	8½	.172	6¾	.137	14½	.299	38	.083	38 0	.083
1879	8	.162	6¾	.137	14½	.294	38	.083	36 0	.078
1880	9¼	.188	7½	.152	15½	.314	41	.089	36 0	.078
1881	9	.183	7	.142	15½	.309	42	.091	38 0	.083
1882	9	.183	7	.142	15	.304	53	.118	44 0	.096
1883	9	.183	7	.142	15	.304	50	.109	43 0	.093
1884	9	.183	7	.142	15	.304	47	.102	37 6	.081
1885	8¾	.177	6½	.132	15	.304	38	.083	39 6	.086
1886	8	.162	5¾	.117	15	.304	31	.067	26 0	.056
1887	7¾	.157	6¼	.127	15	.304	31	.067	24 0	.052
1888	6¾	.137	4¾	.099	14	.284	36	.078	26 0	.056
1889	6¼	.127	5	.101	13½	.274	38	.083	27 6	.059
1890	5¾	.117	5½	.113	13	.264	38	.083	26 0	.056
1891	5⅝	.112	5⅛	.104	13	.264	40	.087	27 6	.059

TABLE 62.—*Wholesale prices of 56 commodities in England from 1846 to 1891, with equivalents in United States money and measures*—Continued.

Year.	47. Oil, palm.		48. Oil, olive.		49. Oil, linseed.		50. Linseed.		51. Petroleum, refined.	
	Per 2,240 pounds.	Per pound.	Per 252 gallons.	Per gallon.	Per 2,240 pounds.	Per pound.	Per 8 bushels.	Per bushel.	Per gallon.	Per gallon.
	£.		£.		£.		s.		d.	
1846	32	$0.070	40	$0.644	25	$0.054	48	$1.415	.....	.....
1847	36	.078	47	.756	26	.056	49	1.445	.....	.....
1848	33	.072	43	.692	23	.050	43	1.268	.....	.....
1849	32	.070	41	.660	27	.059	42	1.238	.....	.....
1850	30	.065	43	.692	32	.070	44	1.297	.....	.....
1851	28	.061	40	.644	31	.067	48	1.415	.....	.....
1852	29	.063	48	.772	28	.061	46	1.356	.....	.....
1853	37	.080	64	1.030	30	.065	49	1.445	.....	.....
1854	48	.104	55	.885	36	.078	62	1.828	.....	.....
1855	44	.096	54	.869	40	.087	68	2.005	.....	.....
1856	42	.091	52	.837	36	.078	60	1.769	.....	.....
1857	45	.098	56	.901	38	.083	64	1.887	.....	.....
1858	39	.085	46	.740	31	.067	54	1.592	.....	.....
1859	45	.098	49	.788	29	.063	51	1.504	.....	.....
1860	46	.100	58	.933	29	.063	55	1.622	.....	.....
1861	45	.098	57	.917	31	.067	59	1.740	.....	.....
1862	43	.093	56	.901	39	.089	64	1.887	.....	.....
1863	37	.080	55	.885	43	.093	64	1.887	25	$0.422
1864	34	.074	57	.917	36	.078	64	1.887	25	.422
1865	37	.080	51	.821	34	.074	66	1.946	31	.524
1866	42	.091	57	.917	38	.083	60	1.769	24	.405
1867	41	.089	62	.997	37	.080	68	2.005	16	.270
1868	40	.087	66	1.062	32	.070	63	1.858	16½	.279
1869	41	.089	52	.837	30	.065	61	1.799	20	.338
1870	39	.085	51	.821	31	.067	61	1.799	19½	.329
1871	38	.083	49	.788	33	.072	62	1.828	17½	.296
1872	39	.085	48	.772	34	.074	63	1.858	17¾	.300
1873	38	.083	43	.692	32	.070	62	1.828	15¼	.258
1874	36	.078	42	.676	27	.059	59	1.740	10¼	.173
1875	36	.078	43	.692	24	.052	54	1.592	10	.169
1876	38	.083	46	.740	24	.052	51	1.504	14½	.245
1877	40	.087	49	.788	28	.061	54	1.592	12	.203
1878	38	.083	49	.788	26	.056	49	1.445	9¼	.154
1879	34	.074	46	.740	27	.059	52	1.533	7½	.125
1880	32	.070	41	.660	27	.059	54	1.592	7½	.127
1881	32	.070	38	.611	26	.056	50	1.474	7¼	.122
1882	35	.076	37	.595	23	.050	44	1.297	6	.101
1883	41	.089	36	.579	20	.043	42	1.238	6½	.110
1884	36	.078	40	.644	20	.043	43	1.268	6½	.110
1885	30	.065	39	.627	22	.048	44	1.297	6¾	.116
1886	24	.052	38	.611	20½	.045	42	1.238	5¾	.099
1887	22	.048	34	.547	20½	.045	38	1.120	5½	.095
1888	22	.048	36	.579	18½	.040	39	1.150	6½	.110
1889	25	.054	35	.563	20	.043	42	1.238	5¾	.097
1890	27	.059	41	.660	23	.050	43	1.268	5½	.093
1891	26	.056	43	.692	21	.046	42	1.238	5¾	.096

TABLE 62.—*Wholesale prices of 56 commodities in England from 1846 to 1891, with equivalents in United States money and measures*—Concluded.

Year.	52. Soda crystals.		53. Nitrate of soda.		54. Indigo, Bengal, good consuming.		55. Timber, hewn, average import.		56. Timber, sawn or split, average import.	
	Per 2,240 pounds.	Per pound.	Per 112 pounds.	Per pound.	Per pound.	Per pound.	Per load.	Per load.	Per load.	Per load.
	s.		*s.* *d.*		*s.* *d.*		*s.*		*s.*	
1846	.....	.....	15 6	$0.034	3 10	$0.933	75	$18.249	.....	.....
1847	.....	.....	14 0	.030	3 1	.750	75	18.249	.....	.....
1848	.....	.....	13 0	.028	3 1	.750	55	13.383	.....	.....
1849	.....	.....	12 0	.026	3 7	.872	60	14.600	.....	.....
1850	.....	.....	14 6	.032	5 4	1.298	55	13.383	.....	.....
1851	.....	.....	14 3	.031	3 9	.913	60	14.600	.....	.....
1852	.....	.....	14 9	.032	4 11	1.196	75	18.249	.....	.....
1853	.....	.....	18 0	.039	4 10	1.176	80	19.466	.....	.....
1854	.....	.....	17 0	.037	4 8	1.136	87	21.169	74	$18.00
1855	.....	.....	17 3	.037	5 4	1.298	84	20.439	72	17.515
1856	.....	.....	17 6	.038	5 9	1.399	80	19.466	63	15.330
1857	.....	.....	20 6	.045	6 6	1.582	70	17.033	55	13.383
1858	.....	.....	17 0	.037	6 6	1.582	65	15.816	48	11.680
1859	.....	.....	16 3	.035	6 6	1.582	69	16.789	57	13.870
1860	.....	.....	14 9	.032	6 6	1.582	74	18.006	62	15.086
1861	.....	.....	13 6	.029	8 7	2.089	76	18.493	58	14.113
1862	.....	.....	14 0	.030	7 3	1.764	76	18.493	58	14.113
1863	.....	.....	14 6	.032	6 3	1.521	72	17.519	57	13.870
1864	.....	.....	15 9	.034	5 10	1.419	72	17.519	57	13.870
1865	.....	.....	14 3	.031	6 6	1.582	67	16.303	58	14.113
1866	.....	.....	12 6	.027	6 10	1.663	61	14.843	55	13.383
1867	95	$0.010	12 0	.026	7 5	1.805	58	14.113	52	12.653
1868	85	.009	13 6	.029	8 4	2.028	61	14.843	51	12.410
1869	75	.008	15 9	.034	8 7	2.089	65	15.816	51	12.410
1870	87	.009	16 3	.035	8 0	1.947	65	15.816	52	12.653
1871	115	.012	16 3	.035	9 9	2.190	56	13.626	46	11.193
1872	140	.015	16 0	.035	6 9	1.643	58	14.113	49	11.922
1873	100	.011	15 6	.034	6 8	1.622	65	15.816	62	15.086
1874	85	.009	12 3	.027	7 0	1.703	64	15.573	65	15.816
1875	75	.008	12 3	.027	5 9	1.399	57	13.870	56	13.626
1876	80	.009	11 6	.025	6 7	1.602	58	14.113	56	13.626
1877	72	.008	14 0	.030	5 6	1.338	56	13.626	56	14.113
1878	70	.008	15 0	.033	5 6	1.338	49	11.923	50	12.166
1879	68	.007	15 0	.033	6 3	1.521	42	10.220	43	10.463
1880	74	.008	15 6	.034	7 3	1.764	49	11.923	52	12.653
1881	65	.007	14 6	.032	6 9	1.643	51	12.410	50	12.166
1882	63	.007	13 3	.029	6 6	1.582	52	12.653	52	12.653
1883	66	.007	11 3	.024	6 3	1.521	52	12.653	48	11.680
1884	65	.007	9 6	.021	6 0	1.460	48	11.680	46	11.193
1885	55	.006	10 6	.023	5 3	1.277	48	11.680	45	10.950
1886	49	.005	10 0	.022	5 0	1.277	43	10.463	43	10.463
1887	50	.005	9 6	.021	4 9	1.156	38	9.246	43	10.220
1888	48	.005	10 0	.022	4 9	1.156	41	9.976	44	10.706
1889	51	.006	9 6	.021	4 6	1.095	47	11.436	49	11.923
1890	61	.007	8 6	.018	4 3	1.034	44	10.706	46	11.193
1891	64	.007	8 9	.019	4 9	1.156	40	9.733	43	10.463

TABLE 63.—*Relative prices in England, 1846 to 1891—Calculations of Mr. Sauerbeck.*

[1867 to 1877=100.]

Year.	1. Wheat. English.	2. Wheat, American.	3. Flour.	4. Barley.	5. Oats.	6. Maize.	7. Potatoes.	8. Rice.	1-8. Vegetable food—total.
1846	100	100	111	84	91	120	107	135	848
1847	128	128	126	113	110	138	137	155	1,035
1848	93	93	100	81	79	98	103	87	734
1849	81	81	89	71	67	86	81	77	633
1850	74	74	80	60	63	86	73	85	595
1851	71	71	78	64	72	86	60	80	582
1852	75	75	85	73	73	89	77	90	637
1853	97	97	113	85	81	108	115	107	803
1854	133	133	141	92	107	132	103	122	963
1855	137	137	148	89	106	132	81	130	960
1856	127	127	135	105	97	108	73	100	872
1857	103	103	111	108	97	114	99	102	837
1858	81	81	87	89	94	101	85	75	693
1859	80	80	89	85	89	95	77	85	680
1860	98	98	104	94	94	108	94	102	792
1861	102	102	113	92	91	114	99	105	818
1862	102	102	102	90	87	95	103	105	786
1863	82	82	89	87	82	89	77	110	698
1864	74	74	83	77	77	89	64	95	633
1865	76	76	85	76	84	92	73	107	669
1866	91	91	98	96	94	98	73	120	761
1867	118	118	126	103	100	126	111	117	919
1868	117	117	117	110	108	120	107	110	906
1869	89	89	87	101	100	95	73	95	729
1870	86	86	89	89	88	92	77	95	702
1871	104	100	96	92	97	101	68	98	756
1872	105	105	102	96	89	89	120	100	806
1873	108	113	104	104	98	92	137	95	851
1874	102	102	102	115	111	117	90	100	839
1875	83	86	87	98	110	105	90	82	741
1876	85	86	89	90	101	82	115	90	738
1877	104	98	98	102	100	84	111	100	797
1878	85	86	83	103	94	77	132	100	760
1879	80	86	78	87	84	73	111	96	695
1880	81	91	85	85	89	79	111	91	712
1881	83	93	87	82	84	85	73	83	670
1882	83	87	87	80	84	95	81	74	671
1883	76	80	78	82	82	85	90	81	654
1884	65	65	65	79	78	78	64	77	571
1885	60	62	63	77	79	71	64	70	546
1886	57	62	61	68	73	65	69	66	521
1887	60	61	61	65	63	65	73	68	516
1888	58	66	65	71	64	72	69	71	536
1889	55	63	63	66	69	61	69	72	518
1890	59	63	63	73	72	61	60	72	523
1891	68	71	73	72	77	86	79	79	604

TABLE 63.—*Relative prices in England, 1846 to 1891—Calculations of Mr. Sauerbeck*—Continued.

[1867 to 1877 = 100.]

Year.	9. Beef, prime.	10. Beef, middling.	11. Mutton, prime.	12. Mutton, middling.	13. Pork.	14. Bacon.	15. Butter.	9–15. Animal food—total.
1846	68	68	84	87	100	77	82	566
1847	76	80	87	91	104	97	81	616
1848	69	74	84	85	100	92	78	582
1849	64	64	70	69	83	78	70	498
1850	61	60	68	67	79	66	66	467
1851	63	60	70	69	77	69	70	478
1852	63	62	70	69	73	73	70	480
1853	76	78	86	85	87	85	80	577
1854	85	86	86	85	94	91	82	609
1855	85	88	84	84	92	92	85	610
1856	81	82	84	84	96	96	92	615
1857	81	84	86	84	100	95	93	623
1858	80	82	81	80	85	80	94	582
1859	81	82	84	85	90	80	92	594
1860	85	84	89	91	104	92	90	635
1861	83	84	87	91	104	95	90	634
1862	78	78	84	87	100	88	90	605
1863	80	82	86	87	92	85	86	598
1864	85	88	87	93	94	88	87	623
1865	90	92	102	105	106	98	93	681
1866	90	94	97	100	104	99	90	674
1867	88	90	87	91	87	84	93	620
1868	85	86	81	85	87	89	101	614
1869	93	92	92	93	106	103	92	671
1870	95	96	92	95	108	100	99	685
1871	102	106	100	107	98	85	104	702
1872	100	104	106	111	96	97	95	709
1873	110	112	113	114	104	109	98	760
1874	105	102	98	96	104	108	107	720
1875	109	110	113	107	110	108	101	758
1876	105	104	114	105	113	109	108	758
1877	104	98	109	98	98	101	102	710
1878	104	98	108	100	96	100	98	704
1879	93	90	102	95	92	97	88	655
1880	98	98	105	98	106	103	100	708
1881	95	96	109	104	104	103	98	709
1882	102	102	114	109	98	100	100	725
1883	104	102	116	111	94	97	98	722
1884	98	98	102	96	92	95	96	677
1885	88	88	89	85	87	92	89	618
1886	83	80	98	91	87	91	80	610
1887	73	72	83	76	83	82	82	551
1888	81	78	92	85	77	82	80	575
1889	80	78	100	91	83	89	82	603
1890	80	76	94	82	81	84	80	577
1891	80	80	84	76	75	85	85	585

TABLE 68.—*Relative prices in England, 1846 to 1891—Calculations of Mr. Sauerbeck*—Continued.

[1867 to 1877 = 100.]

Year.	16. Sugar, West Indian and beet.	17. Sugar, Java.	18a. Coffee, plantation. (a)	18b. Coffee, Rio. (a)	18. Coffee—total.	19a. Tea—Congou. (a)	19b. Tea—import. (a)	19. Tea—total.	16-19. Sugar, coffee, and tea—total.	1-19. Food—total.
1846	143	116	60	50	55	82	76	79	393	1,807
1847	117	98	56	52	54	80	76	78	347	1,998
1848	87	74	46	45	46	69	71	70	277	1,593
1849	96	84	54	56	55	75	76	75	310	1,441
1850	100	88	64	75	69	98	88	93	350	1,412
1851	100	91	58	61	59	93	83	88	338	1,398
1852	87	81	58	64	61	73	71	72	301	1,418
1853	96	91	64	72	68	100	88	94	349	1,729
1854	87	88	63	78	70	100	90	95	340	1,912
1855	104	103	64	69	66	80	88	84	356	1,926
1856	122	110	67	72	69	82	85	83	390	1,877
1857	148	144	77	79	78	115	101	108	478	1,938
1858	104	116	72	67	70	100	96	98	388	1,663
1859	100	109	77	81	79	131	108	120	408	1,682
1860	104	112	78	94	86	144	108	126	428	1,855
1861	96	102	79	86	82	107	100	104	384	1,836
1862	87	98	93	94	93	120	112	116	394	1,785
1863	92	95	93	105	99	114	108	111	397	1,693
1864	113	112	88	105	96	98	106	102	423	1,678
1865	96	95	89	91	90	98	116	107	388	1,738
1866	92	91	91	79	85	104	112	108	376	1,811
1867	94	98	87	70	79	104	108	106	377	1,916
1868	95	98	82	61	72	124	112	118	383	1,903
1869	103	105	82	67	75	115	103	109	392	1,792
1870	99	105	74	70	72	107	100	104	380	1,767
1871	109	109	77	86	81	102	96	99	398	1,856
1872	111	105	91	111	101	102	98	100	417	1,932
1873	101	98	115	134	125	107	97	102	426	2,037
1874	97	93	129	131	130	102	99	101	421	1,980
1875	90	88	121	125	123	98	98	98	399	1,898
1876	94	91	121	116	118	84	96	90	393	1,889
1877	106	105	117	120	118	69	93	81	410	1,917
1878	88	88	116	97	106	69	89	79	361	1,825
1879	86	84	103	91	97	80	85	82	349	1,699
1880	89	89	100	95	97	78	78	78	353	1,778
1881	92	93	92	77	84	58	75	66	335	1,714
1882	87	89	75	61	68	45	73	59	303	1,699
1883	84	86	87	67	77	49	72	60	307	1,683
1884	56	62	91	74	73	56	68	62	253	1,501
1885	59	62	69	61	65	58	70	64	250	1,414
1886	50	50	78	72	75	58	69	64	239	1,370
1887	52	51	104	122	113	44	62	53	269	1,336
1888	57	56	92	100	96	36	64	50	259	1,370
1889	69	67	109	119	114	38	63	50	300	1,421
1890	54	54	116	130	123	40	62	51	282	1,382
1891	57	54	116	119	118	49	62	56	285	1,454

a Figures not included in the general average.

TABLE 63.—*Relative prices in England, 1846 to 1891—Calculations of Mr. Sauerbeck*—Continued.

[1867 to 1877 = 100.]

Year.	20. Iron, pig.	21. Iron, bar.	22. Copper.	23. Tin.	24. Lead.	25. Coals, London.	26. Coals, export.	20-26. Minerals, total.
1846	97	115	111	86	98	82	61	645
1847	95	118	119	83	91	93	62	661
1848	50	85	104	74	83	82	62	549
1849	66	76	103	73	77	80	62	537
1850	64	71	104	74	87	77	62	539
1851	58	67	104	78	84	73	60	524
1852	65	76	119	81	87	75	60	563
1853	90	112	141	108	117	100	65	733
1854	115	121	153	111	117	107	79	803
1855	103	103	153	110	115	100	79	763
1856	105	108	144	127	122	84	77	767
1857	100	100	151	128	118	84	76	757
1858	79	85	131	112	109	82	75	673
1859	75	82	131	128	110	84	75	685
1860	78	79	127	125	108	93	73	683
1861	71	73	119	113	100	91	73	640
1862	78	76	116	111	101	82	73	636
1863	81	85	115	114	101	82	72	650
1864	83	100	119	99	102	91	76	670
1865	79	94	111	85	98	91	77	635
1866	88	88	108	78	100	89	82	633
1867	78	82	95	83	96	91	83	608
1868	77	77	93	90	94	84	80	595
1869	78	82	92	120	94	84	77	627
1870	79	89	87	119	90	84	77	635
1871	85	92	92	128	89	87	79	653
1872	148	133	124	139	99	116	127	886
1873	170	152	112	126	117	145	167	989
1874	127	124	105	93	109	114	138	810
1875	95	101	109	80	110	109	106	710
1876	85	88	101	70	107	95	87	633
1877	79	82	91	65	100	91	81	589
1878	70	68	83	58	81	82	76	518
1879	69	70	77	69	74	82	70	511
1880	79	82	84	84	80	70	72	551
1881	71	70	83	89	74	77	72	526
1882	71	76	88	97	71	77	72	553
1883	69	70	84	80	63	82	75	523
1884	61	62	72	77	55	75	74	476
1885	60	59	57	83	57	75	72	463
1886	58	56	53	93	65	73	68	466
1887	61	56	59	107	63	73	67	486
1888	58	59	108	111	68	75	67	546
1889	69	76	68	89	63	80	82	527
1890	72	77	72	90	65	86	101	563
1891	68	68	68	87	61	86	97	535

TABLE 63.—*Relative prices in England, 1846 to 1891—Calculations of Mr. Sauerbeck*—Continued.

[1867 to 1877 = 100.]

Year.	27. Cotton—upland.	28. Cotton—Dhollerah.	29. Flax.	30. Hemp.	31. Jute.	32. Wool, merino.	33. Wool, English.	34. Silk.	27–34. Textiles—total.
1846	54	52	104	91	95	85	66	70	617
1847	68	67	106	99	90	75	61	61	627
1848	46	48	81	86	79	59	56	56	511
1849	57	57	77	78	79	73	51	65	537
1850	78	78	87	81	84	79	56	83	626
1851	61	63	96	94	68	79	63	78	602
1852	59	63	98	85	84	92	68	78	627
1853	64	61	100	104	116	95	81	78	699
1854	60	54	119	145	95	86	78	69	706
1855	63	59	106	118	100	92	66	69	673
1856	70	70	92	101	95	109	81	96	714
1857	86	82	75	85	90	111	104	104	737
1858	76	82	96	73	84	108	69	83	671
1859	75	74	108	69	84	112	94	91	707
1860	69	74	104	69	84	116	102	100	718
1861	95	93	100	69	92	104	99	87	739
1862	192	191	117	79	110	104	104	91	988
1863	258	285	112	86	142	105	114	91	1,193
1864	306	318	110	87	134	110	139	96	1,300
1865	211	215	108	81	103	107	130	117	1,072
1866	172	178	115	103	116	113	119	122	1,038
1867	121	129	102	110	103	101	95	117	878
1868	117	126	107	112	101	92	88	109	852
1869	135	144	105	108	100	79	92	113	876
1870	110	120	102	113	117	79	85	122	848
1871	95	86	92	105	124	100	108	117	827
1872	117	111	103	108	108	124	130	113	914
1873	100	92	97	101	95	118	124	95	822
1874	89	79	92	92	95	113	105	74	739
1875	82	74	100	85	87	105	100	68	701
1876	69	67	100	86	87	94	88	91	682
1877	70	77	94	81	92	94	82	87	677
1878	66	73	84	69	90	93	76	72	623
1879	70	74	73	67	87	88	63	69	591
1880	77	78	79	68	99	103	77	65	646
1881	71	65	70	86	98	92	63	68	613
1882	74	64	64	90	79	92	57	68	588
1883	64	58	65	92	75	89	51	68	562
1884	67	59	64	86	71	85	51	63	546
1885	62	63	73	82	63	73	50	55	521
1886	57	53	75	74	61	70	51	60	501
1887	62	53	68	81	64	72	54	63	517
1888	62	58	61	81	70	72	53	57	514
1889	66	61	60	97	79	82	56	59	560
1890	67	58	56	82	70	76	56	61	526
1891	52	48	57	72	68	70	49	57	473

TABLE 63.—*Relative prices in England, 1846 to 1891—Calculations of Mr. Sauerbeck*—Continued.

[1867 to 1877 = 100.]

Year.	35. Hides	36. Leather.	37. Tallow.	38. Oil, palm	39. Oil, olive	40. Linseed oil and linseed.	41. Petroleum (a)	42. Soda crystals.	43. Nitrate of soda.	44. Indigo.	45. Timber	35–45 Sundry materials—total.	20–45. All materials—total.	1–45. Grand total.
1846	72	69	98	80	80	82	.....	.....	111	53	125	770	2,032	3,839
1847	65	66	107	92	94	84	.....	.....	100	42	125	775	2,063	4,061
1848	55	61	104	85	86	75	.....	.....	93	42	92	691	1,751	3,344
1849	51	59	87	82	82	80	.....	.....	86	49	100	676	1,750	3,191
1850	53	59	82	77	86	90	.....	.....	104	73	92	716	1,881	3,293
1851	64	62	84	72	80	92	.....	.....	102	52	100	708	1,834	3,222
1852	61	59	87	74	96	85	.....	.....	105	68	125	760	1,950	3,368
1853	71	77	116	95	128	91	.....	.....	129	67	133	907	2,339	4,068
1854	82	84	145	123	110	112	.....	.....	121	64	142	983	2,492	4,404
1855	92	84	128	113	108	123	.....	.....	123	73	136	980	2,416	4,342
1856	117	91	119	108	104	110	.....	.....	125	79	125	978	2,459	4,336
1857	135	120	130	115	112	117	.....	.....	146	90	109	1,074	2,568	4,506
1858	111	94	118	100	92	97	.....	.....	121	90	98	921	2,265	3,929
1859	120	98	126	115	98	91	.....	.....	116	90	110	984	2,356	4,038
1860	121	108	126	118	116	95	.....	.....	105	90	119	998	2,398	4,253
1861	106	94	121	115	114	101	.....	.....	96	119	117	983	2,362	4,198
1862	98	91	106	110	112	118	.....	.....	100	100	117	952	2,576	4,361
1863	86	91	98	95	110	125	.....	.....	104	86	113	908	2,751	4,444
1864	84	88	93	87	114	114	.....	.....	112	80	113	885	2,855	4,533
1865	80	88	100	95	102	112	.....	.....	102	90	109	878	2,585	4,221
1866	79	91	102	108	114	114	.....	.....	89	94	101	892	2,563	4,374
1867	79	88	99	105	124	118	.....	103	86	102	96	1,000	2,498	4,402
1868	87	91	103	103	132	106	.....	92	96	115	97	1,022	2,469	4,372
1869	84	91	103	105	104	101	.....	82	112	119	101	1,002	2,505	4,297
1870	87	91	99	100	102	103	.....	85	116	110	102	995	2,468	4,225
1871	96	94	101	97	98	107	.....	125	116	124	89	1,047	2,526	4,382
1872	112	109	103	100	96	109	.....	152	114	93	94	1,062	2,682	4,814
1873	120	114	97	97	86	105	122	109	110	92	111	1,163	2,974	5,011
1874	115	109	92	92	84	94	82	92	88	97	113	1,058	2,607	4,587
1875	109	108	102	92	86	85	80	82	88	79	99	1,010	2,421	4,319
1876	93	105	101	97	92	82	116	87	82	91	100	1,046	2,361	4,250
1877	101	100	94	103	98	92	96	78	100	75	100	1,037	2,303	4,120
1878	94	92	84	97	98	85	73	76	107	76	87	969	2,110	3,955
1879	92	91	82	87	92	89	59	74	107	86	75	934	2,036	3,735
1880	105	97	86	82	82	90	60	80	111	100	89	982	2,179	3,962
1881	100	95	89	82	76	85	58	71	104	93	89	942	2,091	3,805
1882	100	94	107	90	74	75	48	69	95	90	91	933	2,074	3,773
1883	100	94	103	105	72	68	52	72	80	86	88	920	2,014	3,697
1884	100	94	94	92	80	69	52	71	68	83	82	885	1,907	3,468
1885	95	94	76	77	78	73	55	60	75	72	81	836	1,820	3,234
1886	85	94	63	61	76	69	47	53	71	69	76	764	1,731	3,101
1887	88	94	61	56	68	65	45	54	68	66	70	735	1,738	3,074
1888	73	87	71	56	72	63	52	52	71	66	74	737	1,797	3,167
1889	70	84	72	64	70	69	46	55	69	62	84	744	1,831	3,252
1890	70	81	71	69	82	73	45	66	61	59	79	756	1,845	3,277
1891	66	81	75	67	86	70	45	70	63	66	73	762	1,770	3,234

a Compared with average of 1873 to 1877 only.

TABLE 63.—*Relative prices in England, 1846 to 1891—Calculations of Mr. Sauerbeck*—Concluded.

[1867 to 1877=100.]

Year.	Vegetable food (corn, etc.).	Animal food (meat, etc.).	Sugar, coffee, and tea.	Total food.	Minerals.	Textiles.	Sundry materials.	Total materials.	Grand total.
1846	106	81	98	95	92	77	86	85	89
1847	129	88	87	105	94	78	86	86	95
1848	92	83	69	84	78	64	77	73	78
1849	79	71	77	76	77	67	75	73	74
1850	74	67	87	75	77	78	80	78	77
1851	73	68	84	74	75	75	79	76	75
1852	80	69	75	75	80	78	84	81	78
1853	100	82	87	91	105	87	101	97	95
1854	120	87	85	101	115	88	109	104	102
1855	120	87	89	101	109	84	109	101	101
1856	109	88	97	99	110	89	109	102	101
1857	105	89	119	102	108	92	119	107	105
1858	87	83	97	88	96	84	102	94	91
1859	85	85	102	89	98	88	107	98	94
1860	99	91	107	98	97	90	111	100	99
1861	102	91	96	97	91	92	109	99	98
1862	98	86	98	94	91	123	106	107	101
1863	87	85	99	89	93	149	101	115	103
1864	79	89	106	88	96	162	98	119	105
1865	84	97	97	91	91	134	97	108	101
1866	95	96	94	95	91	130	99	107	102
1867	115	89	94	101	87	110	100	100	100
1868	113	88	96	100	85	106	102	99	99
1869	91	96	98	94	89	109	100	100	98
1870	88	98	95	93	89	106	99	99	96
1871	94	100	100	98	93	103	105	101	100
1872	101	101	104	102	127	114	108	115	109
1873	106	109	106	107	141	103	106	114	111
1874	105	103	105	104	116	92	96	100	102
1875	93	108	100	100	101	88	92	93	96
1876	92	108	98	99	90	85	95	91	95
1877	100	101	103	101	84	85	94	89	94
1878	95	101	90	96	74	78	88	81	87
1879	87	94	87	90	73	74	85	78	83
1880	89	101	88	94	79	81	89	84	88
1881	84	101	84	91	77	77	86	80	85
1882	84	104	76	89	79	73	85	80	84
1883	82	103	77	89	76	70	84	77	82
1884	71	97	63	79	68	68	81	73	76
1885	68	88	63	74	66	65	76	70	72
1886	65	87	60	72	67	63	69	67	69
1887	64	79	67	70	69	65	67	67	68
1888	67	82	65	72	78	64	67	69	70
1889	65	86	75	75	75	70	68	70	72
1890	65	82	70	73	80	66	69	71	72
1891	75	81	71	77	76	59	69	68	72

In the foregoing calculations Mr. Sauerbeck assigns to each article an equal importance in the result. Comparisons should be made with the two results obtained for the United States. By a single average of all the quotations the 1891 price stood at 92.2, while by a weighted average, embracing over two-thirds of the workingman's consumption, it was 94.4, as compared with 100 in 1860. By Mr. Sauerbeck's figures the general price is 99 in 1860 and 72 in 1891.

This is a very marked difference, and it may well be inquired what influence a difference in methods may have had in bringing about such a result. In order, however, to make our comparisons perfectly valid, we will reduce the figures of Mr. Sauerbeck to the date line 1860. In preparing the table we have followed the methods of combination used by Mr. Sauerbeck, with one exception. In combining linseed and linseed oil Mr. Sauerbeck uses the average of the prices as the basis of his relative prices. But it is not clear how the measures in one case

of weight and in the other of capacity have been rendered uniform, and we have therefore resorted to the average of the relative prices of each, as is done by Mr. Sauerbeck in regard to tea and coffee.

TABLE 64.—*Relative prices of commodities in England, 1846 to 1891.*

[1860=100.]

Year.	1. Wheat, English Gazette.	2. Wheat, American.	3. Flour, town made, white.	4. Barley, English Gazette.	5. Oats, English Gazette.	6. Maize, American mixed.	7. Potatoes, good English.	8. Rice, Rangoon, cargoes to arrive.	Total vegetable food.
1846.....	102.7	102.7	106.3	89.3	96.9	111.4	113.6	131.7	854.6
1847.....	131.0	131.0	120.8	120.7	117.4	128.6	145.5	151.2	1,046.2
1848.....	94.8	94.8	95.8	86.1	84.0	91.4	109.1	85.4	741.4
1849.....	83.1	83.1	85.4	75.9	71.7	80.0	86.4	75.6	641.2
1850.....	75.6	75.6	77.1	64.0	67.2	80.0	77.3	82.9	559.7
1851.....	72.3	72.3	75.0	67.7	76.1	80.0	63.6	78.0	585.0
1852.....	76.7	76.7	81.3	77.9	78.2	82.9	81.8	87.8	643.3
1853.....	100.0	100.0	108.3	90.7	86.0	100.0	122.7	104.9	812.6
1854.....	136.0	136.0	135.4	98.4	114.3	122.9	109.1	119.5	971.6
1855.....	140.2	140.2	141.7	95.0	112.3	122.9	86.4	126.8	985.5
1856.....	129.9	129.9	129.2	112.3	103.1	100.0	77.3	97.6	879.3
1857.....	105.8	105.8	106.3	115.0	102.4	105.7	104.5	100.0	845.5
1858.....	82.9	82.9	83.3	94.8	100.3	94.3	90.9	73.2	702.6
1859.....	82.2	82.2	85.4	71.6	94.9	88.6	81.8	82.9	689.6
1860.....	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	800.0
1861.....	103.9	103.9	108.3	98.6	97.3	105.7	104.5	102.4	824.6
1862.....	104.1	104.1	97.9	95.9	92.5	88.6	109.1	102.4	794.6
1863.....	84.0	84.0	85.4	92.7	86.7	82.9	81.8	107.3	704.8
1864.....	75.4	75.4	79.2	81.8	82.3	82.9	68.2	92.7	637.9
1865.....	78.6	78.6	81.3	81.3	89.4	85.7	77.3	104.9	677.1
1866.....	93.7	93.7	93.7	102.3	100.7	91.4	77.3	117.1	769.9
1867.....	121.0	121.0	118.7	109.3	106.5	117.1	118.2	114.6	926.4
1868.....	119.7	119.7	112.5	117.5	115.0	111.4	113.6	107.3	916.7
1869.....	90.5	90.5	83.3	107.7	106.5	88.6	77.3	92.7	737.1
1870.....	88.0	88.0	85.4	94.5	93.9	85.7	81.8	92.7	710.0
1871.....	106.4	105.2	91.7	98.9	103.1	94.3	72.7	95.9	768.2
1872.....	107.0	110.8	95.8	102.3	94.9	82.9	127.3	97.6	818.6
1873.....	110.2	118.3	106.3	110.5	104.1	85.7	145.5	92.7	873.3
1874.....	104.5	107.0	97.9	122.8	118.1	108.6	95.5	97.6	852.0
1875.....	84.8	90.1	83.3	105.0	117.4	97.1	95.5	80.5	758.7
1876.....	86.7	90.1	85.4	96.1	107.5	76.4	122.7	87.8	752.7
1877.....	106.6	103.3	93.7	108.4	106.1	77.9	118.2	97.6	811.8
1878.....	87.2	90.1	79.2	109.8	99.7	71.4	140.9	97.6	775.9
1879.....	82.3	90.1	75.0	92.9	89.1	67.9	118.2	93.5	709.0
1880.....	83.3	95.8	81.3	90.4	94.5	73.6	118.2	88.6	725.7
1881.....	85.1	97.7	83.3	87.2	89.1	79.3	77.3	81.3	680.3
1882.....	84.7	91.1	83.3	85.2	89.4	88.6	86.4	72.4	681.1
1883.....	78.1	84.5	75.0	87.0	87.7	79.3	95.5	78.9	686.0
1884.....	67.0	68.5	64.6	83.8	82.9	72.1	68.2	74.8	581.9
1885.....	61.7	65.7	60.4	82.2	84.3	65.7	68.2	68.3	556.5
1886.....	58.2	65.7	58.3	72.7	77.8	60.0	72.7	64.2	529.6
1887.....	61.0	63.8	58.3	69.2	66.6	60.7	77.3	66.7	523.6
1888.....	59.8	69.5	62.5	76.1	68.6	67.1	72.7	69.1	545.4
1889.....	55.9	65.7	60.4	70.6	72.7	57.1	72.7	70.7	525.8
1890.....	59.9	66.7	60.4	78.4	76.1	57.1	63.6	70.7	532.9
1891.....	69.5	75.1	68.7	77.0	81.9	80.0	83.6	77.2	613.6

TABLE 64.—*Relative prices of commodities in England, 1846 to 1891*—Continued.

[1860=100.]

Year.	9. Beef, prime.	10. Beef, middling.	11. Mutton, prime.	12. Mutton, middling.	13. Pork, large and small, average.	14. Bacon, Waterford.	15. Butter, Friesland, fine to finest.	Total animal food.
1846	80.0	81.0	94.6	96.0	96.3	83.8	90.3	622.0
1847	90.0	95.2	98.2	100.0	100.0	105.9	89.4	678.7
1848	82.0	88.1	94.6	94.0	96.3	100.0	86.7	641.7
1849	76.0	76.2	78.6	76.0	79.6	85.3	77.9	549.6
1850	72.0	71.4	76.8	74.0	75.9	72.1	72.6	514.8
1851	74.0	71.4	78.6	76.0	74.1	75.0	77.0	526.1
1852	74.0	73.8	78.6	76.0	70.4	79.4	77.9	530.1
1853	90.0	92.8	96.4	94.0	83.3	92.6	88.5	667.6
1854	100.0	102.4	96.4	94.9	90.7	98.5	91.2	673.2
1855	100.0	104.8	94.6	92.0	88.9	100.0	93.8	674.1
1856	96.0	97.6	94.6	92.0	92.6	104.4	101.8	679.0
1857	96.0	100.0	96.4	92.0	96.3	102.9	102.7	686.3
1858	94.0	97.6	91.1	88.0	81.5	86.8	103.5	642.5
1859	96.0	97.6	94.6	94.0	87.0	86.8	101.8	657.8
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	700.0
1861	98.0	100.0	98.2	100.0	100.0	102.9	100.0	699.0
1862	92.0	92.8	94.6	96.0	96.3	95.6	100.0	667.3
1863	94.0	97.6	96.4	96.0	88.9	92.6	94.7	660.2
1864	100.0	104.8	98.2	102.0	90.7	95.6	96.5	687.8
1865	106.0	109.5	114.3	116.0	101.8	101.5	102.7	751.8
1866	106.0	111.9	108.9	110.0	100.0	107.4	99.1	743.3
1867	104.0	107.1	98.2	100.0	83.3	91.2	102.7	686.5
1868	100.0	102.4	91.1	94.0	83.3	97.1	111.5	679.4
1869	110.0	109.5	103.6	102.0	101.8	111.8	101.8	740.5
1870	112.0	114.3	103.6	104.0	103.7	108.8	109.7	756.1
187	120.0	126.2	112.5	118.0	94.4	92.6	115.0	778.7
1872	118.0	123.8	119.6	122.0	92.6	105.9	105.3	787.2
1873	130.0	133.3	126.8	126.0	100.0	119.1	108.8	844.0
1874	124.0	121.4	110.7	106.0	100.0	117.6	118.6	798.3
1875	128.0	130.9	126.8	118.0	105.6	117.6	111.5	838.4
1876	124.0	123.8	128.6	116.0	109.3	119.1	119.5	840.3
1877	122.0	116.7	123.2	108.0	94.4	110.3	112.4	787.0
1878	122.0	116.7	121.4	110.0	92.6	108.8	108.0	779.5
1879	110.0	107.1	114.3	104.0	88.9	105.9	94.7	724.9
1880	116.0	116.7	117.9	108.0	101.8	111.8	110.6	782.8
1881	112.0	114.3	123.2	114.0	100.0	111.8	108.0	784.1
1882	120.0	121.4	128.6	120.0	94.4	108.8	110.6	803.8
1883	122.0	121.4	130.4	122.0	90.7	105.9	106.8	801.2
1884	116.0	116.7	114.3	106.0	88.9	102.9	106.2	751.0
1885	104.0	104.8	100.0	94.0	83.3	100.0	98.2	684.3
1886	98.0	95.2	110.7	100.0	83.3	98.5	88.5	674.2
1887	86.0	85.7	92.9	84.0	79.6	89.7	91.2	609.1
1888	96.0	92.8	103.6	94.0	74.1	89.7	88.5	638.7
1889	94.0	92.8	112.5	100.0	79.6	97.1	90.3	666.3
1890	94.0	90.5	105.4	90.0	77.8	91.2	88.5	637.4
1891	94.0	95.2	94.6	84.0	72.2	92.6	93.8	626.4

TABLE 64.—*Relative prices of commodities in England, 1846 to 1891*—Continued.

[1860=100.]

Year.	16. Sugar, British West Indian, refining, and German or French beet, average of price.	18. Sugar, Java, floating cargoes.	19. Coffee, Ceylon, plantation, low middling.	20. Coffee, Rio, good channel.	Coffee, average of 19 and 20.	21. Tea, Congou, common.	22. Tea, average import price.	Tea, average of 21 and 22.	Total coffee, tea, and sugar.
1846	137.5	103.1	76.5	53.3	64.9	56.9	69.7	63.3	268.8
1847	112.5	87.5	72.1	55.0	63.6	55.4	69.7	62.6	326.2
1848	83.3	65.6	58.8	48.3	53.6	47.7	65.7	56.7	259.2
1849	91.7	75.0	69.1	60.0	64.5	52.3	69.7	61.0	282.2
1850	95.8	78.1	82.4	80.0	81.0	67.7	81.8	74.8	329.7
1851	95.8	81.3	73.5	65.0	69.3	64.6	76.4	70.5	316.9
1852	83.3	71.9	75.0	68.3	71.7	50.8	65.7	58.3	285.2
1853	91.7	81.3	82.4	76.7	79.6	69.2	81.8	75.5	328.1
1854	83.3	78.1	80.9	83.3	82.1	69.2	83.1	76.2	319.7
1855	100.0	90.6	82.4	73.3	77.9	55.4	80.7	68.1	336.6
1856	116.7	103.1	85.3	76.7	81.0	56.9	78.3	67.6	368.4
1857	141.7	128.1	98.5	85.0	91.8	80.0	93.3	86.7	468.3
1858	100.0	103.1	92.6	71.7	82.2	69.2	88.8	79.0	364.3
1859	95.8	96.9	98.5	86.7	92.6	90.8	99.6	95.2	380.5
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	400.0
1861	91.7	90.6	101.5	91.7	96.6	78.8	91.2	82.5	361.4
1862	83.3	87.5	119.1	100.0	109.6	83.1	102.8	93.0	373.4
1863	87.5	84.4	119.1	111.7	115.4	78.5	100.3	89.4	376.7
1864	108.3	100.0	113.2	111.7	112.5	67.7	97.6	82.7	403.5
1865	91.7	84.4	114.8	96.7	105.7	67.7	106.6	87.2	369.0
1866	87.5	81.3	116.2	85.0	100.6	72.3	103.3	87.8	357.2
1867	91.7	87.5	111.7	75.0	93.4	72.3	101.2	86.8	359.4
1868	92.7	87.5	104.4	65.0	84.7	86.2	103.3	94.8	359.7
1869	101.0	93.8	104.4	71.7	88.1	80.0	95.3	87.7	370.6
1870	96.9	93.8	94.1	75.0	84.6	73.8	92.1	83.0	358.3
1871	106.3	96.9	98.5	93.3	95.9	70.7	88.1	79.4	378.5
1872	108.3	93.8	116.2	118.3	117.3	70.7	90.0	80.4	399.8
1873	99.0	87.5	147.1	143.3	145.2	73.8	89.4	81.6	413.3
1874	94.8	82.8	164.7	140.0	152.4	70.7	91.1	80.9	410.9
1875	88.5	78.1	154.4	133.3	143.9	67.7	89.7	78.7	389.2
1876	92.7	81.3	154.4	123.3	138.9	58.5	88.0	73.3	386.2
1877	104.2	93.8	150.0	128.3	139.2	47.7	85.7	66.7	403.9
1878	86.5	78.1	148.5	103.3	125.9	47.7	82.0	64.9	355.4
1879	83.9	75.0	132.4	96.7	114.6	55.4	78.7	67.1	340.6
1880	87.5	79.7	127.9	101.7	114.8	53.8	72.2	63.0	345.0
1881	90.1	82.8	117.6	81.7	99.7	40.0	68.7	54.4	327.0
1882	86.5	79.7	95.6	65.0	80.3	30.8	67.5	49.2	295.7
1883	81.8	76.6	111.8	71.7	91.8	35.4	66.8	51.1	301.3
1884	55.2	54.7	91.2	78.3	84.8	38.5	63.1	50.8	245.5
1885	57.8	54.7	88.2	65.0	76.6	40.0	64.6	52.3	241.4
1886	49.0	44.5	100.0	76.7	88.4	40.0	63.1	51.6	232.5
1887	50.5	45.3	132.4	130.0	81.2	30.8	56.7	43.8	220.8
1888	55.7	50.0	117.6	106.7	112.2	24.6	58.9	41.8	259.7
1889	67.7	59.4	139.7	126.7	133.2	26.2	57.9	42.1	302.4
1890	58.1	47.7	148.5	138.3	143.4	27.7	57.1	42.4	286.6
1891	56.3	48.4	148.5	126.7	137.6	33.8	57.7	45.8	288.1

TABLE 64.—*Relative prices of commodities in England, 1846 to 1891*—Continued.

[1860=100.]

Year.	23. Iron, Scotch pig.	24. Iron, bars, common.	25. Copper, Chile, bars.	27. Tin, Straits.	28. Lead, English pig.	29. Coal, Wallsend, Hetton, in London.	30. Coal, average export price.	Total minerals.
1846	125.7	146.2	87.4	68.7	86.4	87.8	84.7	686.9
1847	122.1	150.0	93.7	66.4	85.2	100.0	86.1	703.5
1848	75.4	107.7	82.1	59.5	77.3	87.8	86.2	576.0
1849	85.0	96.2	81.1	58.8	71.6	85.4	84.9	563.0
1850	82.6	90.4	82.1	59.5	80.7	82.9	84.5	562.7
1851	74.3	84.6	82.1	62.6	78.4	78.0	82.9	542.9
1852	84.3	96.2	93.7	64.9	80.7	80.5	83.2	583.5
1853	116.4	142.3	111.6	86.3	109.1	107.3	90.1	763.1
1854	148.9	153.8	121.1	88.5	109.1	114.6	108.9	844.9
1855	132.2	130.8	121.1	87.8	106.8	107.3	108.5	794.5
1856	135.5	136.5	113.7	101.5	113.6	90.2	106.1	797.1
1857	129.3	126.9	118.9	102.3	110.2	90.2	105.1	782.9
1858	101.6	107.7	103.2	89.3	101.1	87.8	103.0	693.7
1859	96.7	103.8	103.2	102.3	102.3	90.2	103.0	701.5
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	700.0
1861	92.1	92.3	93.7	90.8	93.2	97.6	101.4	661.1
1862	99.1	96.2	91.6	88.5	94.3	87.8	99.9	657.4
1863	104.2	107.7	90.5	91.6	94.3	87.8	99.3	675.4
1864	107.0	126.9	93.7	79.4	95.5	97.6	104.6	704.7
1865	102.3	119.2	87.4	69.5	90.9	97.6	107.0	673.9
1866	113.1	111.5	85.3	62.6	93.2	95.1	113.6	674.4
1867	100.0	103.8	74.7	66.4	89.8	97.6	114.7	647.0
1868	98.6	98.1	73.7	72.5	87.5	90.2	109.5	630.1
1869	99.5	103.8	72.6	96.2	87.5	90.2	106.2	656.1
1870	101.6	113.5	68.4	95.4	84.1	90.2	106.4	659.6
1871	110.1	117.3	72.6	102.3	83.0	92.7	106.2	686.2
1872	190.3	169.2	97.9	111.5	92.0	134.4	174.7	960.0
1873	219.2	192.2	88.4	100.8	106.8	156.1	238.7	1,094.3
1874	163.6	157.7	83.2	74.8	101.1	121.9	190.0	892.3
1875	122.9	128.8	86.3	64.1	102.3	117.1	146.6	768.1
1876	109.3	111.5	80.0	56.5	98.9	102.4	120.6	679.2
1877	101.6	103.8	71.6	51.9	93.2	97.6	112.3	632.0
1878	90.5	86.5	65.3	46.6	75.6	87.8	104.4	556.7
1879	87.9	88.5	61.1	55.7	68.7	87.8	98.8	546.5
1880	101.9	103.8	66.3	67.2	75.0	75.6	98.8	588.6
1881	91.7	88.5	65.3	71.0	68.7	82.9	99.0	567.1
1882	92.2	96.2	69.5	77.9	65.9	82.9	100.9	585.5
1883	87.4	88.5	66.3	71.0	58.5	87.8	103.2	562.7
1884	78.7	78.8	56.8	61.8	51.1	80.5	102.5	510.2
1885	78.2	75.0	45.3	66.4	52.8	80.5	98.8	497.0
1886	74.6	71.2	42.1	74.8	60.2	78.0	93.3	494.2
1887	79.0	71.2	46.3	85.5	58.5	78.0	91.8	510.3
1888	74.6	75.0	85.3	89.3	63.1	80.5	92.8	560.6
1889	89.3	96.2	53.7	71.0	59.1	85.4	112.7	567.4
1890	92.7	96.1	56.8	71.8	60.2	92.7	139.8	611.6
1891	88.2	86.5	53.7	69.5	56.8	92.7	134.2	581.6

TABLE 64.—*Relative prices of commodities in England, 1846 to 1891*—Continued.

[1860=100.]

Year.	31. Cotton, middling upland.	32. Cotton, fair Dhollerah (Surat).	33 and 34. Flax, average of St. Petersburg, 12-head, best, and Russian, average import.	35 and 36. Hemp, average of manila, fair, roping, and St. Petersburg, clean.	37. Jute, good medium.	38 and 39. Wool, merino, average of Port Phillip, average fleece, and Adelaide, average grease.
1846	78.0	69.9	98.0	131.5	112.5	100.0
1847	97.9	89.9	100.0	142.6	106.3	88.9
1848	65.9	65.0	78.0	124.1	93.8	51.4
1849	81.9	77.5	74.0	113.0	93.8	63.9
1850	111.9	105.0	84.0	116.7	100.0	68.1
1851	87.9	85.0	92.0	135.2	81.3	68.1
1852	84.9	85.0	94.0	140.7	100.0	79.2
1853	92.0	82.4	96.0	150.0	137.5	81.9
1854	86.0	72.5	114.0	209.3	112.5	74.3
1855	90.0	80.0	102.0	170.4	118.8	79.9
1856	100.9	95.0	88.0	146.3	112.5	94.4
1857	123.9	110.0	72.0	122.2	106.3	95.8
1858	110.0	110.0	92.0	105.6	100.0	93.1
1859	108.0	100.0	104.0	100.0	100.0	97.2
1860	100.0	100.0	100.0	100.0	100.0	100.0
1861	136.9	126.2	96.0	100.0	109.4	90.3
1862	275.9	257.5	112.0	114.8	131.3	90.3
1863	371.8	384.9	108.0	124.1	168.8	91.0
1864	439.7	429.9	106.0	125.9	159.4	95.1
1865	303.8	289.9	104.0	118.5	121.9	92.4
1866	247.8	239.9	110.0	148.1	137.5	97.9
1867	174.0	175.0	96.0	159.3	121.9	87.5
1868	167.9	169.9	100.5	161.1	120.3	79.5
1869	193.8	195.0	99.0	155.6	118.8	68.1
1870	158.9	162.4	95.5	163.0	139.1	66.4
1871	136.9	116.3	86.5	151.9	146.9	86.5
1872	168.9	149.9	97.0	155.6	128.1	79.5
1873	143.9	123.8	91.5	146.3	112.5	102.1
1874	127.9	106.2	86.0	133.3	112.5	97.2
1875	117.9	100.0	94.5	122.2	103.1	90.6
1876	100.0	89.9	94.0	124.1	103.1	81.6
1877	100.9	103.7	88.0	116.7	109.4	81.6
1878	97.9	98.7	79.5	100.0	106.3	80.9
1879	100.9	100.0	69.0	96.3	103.1	75.7
1880	111.0	105.0	75.0	98.1	117.2	89.2
1881	103.0	87.5	65.5	124.1	115.6	79.9
1882	106.0	86.2	60.0	129.6	93.8	79.9
1883	92.0	77.5	60.5	133.3	89.1	76.4
1884	90.0	78.7	60.3	124.1	84.4	73.3
1885	90.0	85.0	69.0	118.5	75.0	64.6
1886	81.9	71.2	70.0	107.4	71.9	61.5
1887	87.9	71.2	63.5	116.7	76.6	63.2
1888	89.0	77.5	57.0	116.7	82.8	63.2
1889	95.0	82.4	56.0	140.7	93.8	71.5
1890	96.0	78.7	53.0	120.4	89.8	65.3
1891	75.0	65.0	54.0	103.7	81.3	63.1

TABLE 64.—*Relative prices of commodities in England, 1846 to 1891*—Continued.

[1890=100.]

Years.	40. Wool, English, Lincoln, half hogs.	41. Silk, Textiles.	Total textile materials.	42 and 43. Hides, average of River Plate, dry, and River Plate, salted.	44. Leather, crop hides, 30–45 pounds.	45 and 46. Tallow, average of St. Petersburg Y. C. and town.	47. Oil, palm.
1846	64.6	69.6	724.1	66.7	63.8	77.9	69.6
1847	59.6	60.9	746.1	60.3	60.9	85.0	78.3
1848	54.7	56.5	589.4	48.7	56.5	83.2	71.7
1849	49.7	65.2	619.0	47.4	55.1	69.0	69.6
1850	54.7	82.6	723.0	50.0	55.1	65.5	65.2
1851	62.1	78.3	689.9	59.0	58.0	67.3	60.9
1852	67.1	78.3	729.2	56.4	55.1	69.0	63.0
1853	79.5	78.3	797.6	65.4	71.0	92.0	80.4
1854	77.0	69.6	815.2	75.6	78.2	115.9	104.3
1855	64.6	69.6	775.3	75.6	78.2	101.8	95.7
1856	79.5	95.7	812.3	96.2	84.0	94.7	91.3
1857	101.9	104.3	836.4	112.8	111.6	103.5	97.8
1858	77.6	82.6	770.9	92.3	86.9	93.8	84.8
1859	92.6	91.3	793.1	98.7	91.3	100.0	97.8
1860	100.0	100.0	800.0	100.0	100.0	100.0	100.0
1861	96.9	87.0	842.7	87.2	86.9	96.5	97.8
1862	101.9	91.3	1,175.0	80.8	84.0	84.1	93.5
1863	112.5	91.3	1,452.4	70.5	84.0	77.9	80.4
1864	136.1	95.7	1,587.8	69.2	81.2	74.3	78.9
1865	128.0	117.4	1,275.9	65.4	81.2	79.6	80.4
1866	116.8	121.7	1,219.7	64.1	84.0	81.4	91.3
1867	93.8	117.4	1,024.9	64.1	81.2	78.8	89.1
1868	87.0	108.7	994.9	70.5	84.0	82.3	87.0
1869	90.1	113.0	1,033.4	69.2	84.0	82.3	89.1
1870	83.2	121.7	992.2	71.8	84.0	78.8	84.8
1871	106.2	117.4	948.6	79.5	86.9	80.5	82.6
1872	127.4	113.0	1,019.4	92.3	101.4	82.3	84.8
1873	121.8	94.6	936.5	96.7	105.8	77.0	82.6
1874	103.1	73.9	840.1	94.9	101.4	73.5	78.3
1875	98.1	68.5	794.9	88.5	100.0	81.4	78.3
1876	86.3	91.3	770.3	74.4	97.1	80.5	82.6
1877	80.8	87.0	768.1	83.3	92.7	75.2	87.0
1878	74.5	71.7	709.5	78.2	85.5	67.3	82.6
1879	62.1	69.6	676.7	75.6	84.0	65.5	73.9
1880	75.1	65.2	734.8	85.9	89.8	68.1	69.6
1881	61.5	68.5	705.6	82.1	88.3	70.8	69.6
1882	55.9	68.5	679.9	82.1	86.9	85.0	76.1
1883	49.7	68.5	647.0	82.1	86.9	82.3	89.1
1884	49.7	63.0	629.5	82.1	86.9	74.8	78.3
1885	49.1	55.4	606.6	78.2	86.9	60.6	65.2
1886	49.7	59.8	573.4	70.5	86.9	50.4	52.2
1887	52.8	63.0	594.9	71.8	86.9	48.7	47.8
1888	51.6	56.5	594.3	59.6	81.2	56.6	47.8
1889	54.7	58.7	652.8	57.7	78.2	57.5	54.3
1890	54.7	60.9	611.8	57.7	75.4	56.6	58.7
1891	48.5	56.5	544.1	54.5	75.4	59.7	56.5

TABLE 64.—*Relative prices of commodities in England, 1846 to 1891*—Continued.

[1860 = 100.]

Year.	48. Oil, olive.	49. Oil, linseed.	50. Linseed.	Average of 49 and 50.	53. Nitrate of soda.	54. Indigo, Bengal, good consuming.	55 and 56. Timber, average of hewn, average import, and sawn or split, average import.
1846	69.0	86.2	87.3	86.8	105.1	59.0	110.3
1847	81.0	89.7	89.1	89.4	94.9	47.4	110.3
1848	74.1	79.3	78.2	78.8	88.1	47.4	90.9
1849	70.7	93.1	76.4	84.8	81.3	55.1	88.2
1850	74.1	110.3	80.0	95.2	96.3	82.0	90.9
1851	69.0	106.9	87.3	97.1	96.6	87.7	84.2
1852	82.8	96.6	83.6	90.1	100.0	75.6	110.3
1853	110.3	103.4	89.1	96.3	122.0	74.4	117.6
1854	94.8	124.1	112.7	168.4	115.2	71.8	113.4
1855	93.1	137.9	123.6	130.8	116.9	82.9	114.7
1856	89.7	124.1	109.1	116.6	118.6	88.5	105.1
1857	96.6	131.0	116.4	123.7	139.0	100.0	91.9
1858	79.3	106.9	98.2	102.6	115.2	100.0	82.1
1859	84.5	100.0	92.7	96.4	110.2	100.0	92.6
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	98.3	106.9	107.3	107.1	91.5	132.0	98.5
1862	96.6	134.5	116.4	125.5	94.9	111.5	98.5
1863	94.8	148.3	116.4	132.4	98.3	98.1	94.9
1864	98.3	124.1	116.4	120.3	106.8	89.7	94.9
1865	87.9	117.2	120.0	118.6	96.6	100.0	91.9
1866	98.3	131.0	109.1	120.1	84.7	105.1	85.3
1867	106.9	127.6	123.6	125.6	81.3	114.1	80.9
1868	113.8	110.3	114.5	112.4	91.5	129.2	82.4
1869	89.7	103.4	110.9	107.2	106.8	122.0	85.3
1870	87.9	106.9	110.9	108.9	110.2	123.1	86.0
1871	84.5	113.8	112.7	113.3	110.2	138.4	75.0
1872	82.8	117.2	114.5	115.9	108.5	103.8	78.7
1873	74.1	110.3	112.7	111.5	105.1	102.6	90.4
1874	72.4	93.1	107.3	100.2	83.0	107.7	94.9
1875	74.1	82.8	98.2	90.5	83.0	88.5	83.1
1876	79.3	82.8	92.7	87.8	78.0	101.3	83.8
1877	84.5	96.6	98.2	97.4	94.9	84.6	83.8
1878	84.5	89.7	89.1	89.4	101.7	84.6	72.8
1879	79.3	93.1	94.5	93.8	101.7	96.1	62.5
1880	70.7	93.1	98.2	95.7	105.1	111.5	74.3
1881	65.5	89.7	90.9	90.3	98.3	103.8	74.3
1882	63.8	79.3	80.0	79.7	89.8	100.0	78.5
1883	62.1	69.0	76.4	72.7	76.3	96.1	72.5
1884	69.0	69.0	78.2	73.6	64.4	92.3	69.1
1885	67.2	75.9	80.0	78.0	71.2	80.8	62.4
1886	65.5	70.7	76.4	73.6	67.8	76.9	69.2
1887	58.6	70.7	69.1	69.9	64.4	73.1	58.8
1888	62.1	63.8	70.9	67.4	67.8	73.1	69.5
1889	60.3	69.0	76.4	72.7	64.4	69.2	70.6
1890	70.7	79.3	78.2	78.8	57.6	65.4	68.2
1891	74.1	72.4	76.4	74.4	59.3	73.1	62.6

TABLE 64.—*Relative prices of commodities in England, 1846 to 1891*—Concluded.

[1860=100.]

Year.	Total of sundry materials.	Total of all articles.	Average of vegetable food.	Average of animal food.	Average of coffee, tea, and sugar.	Average, minerals.	Average of textile materials.	Average of sundry materials.	Average of all articles.
1846	708.2	3,964.6	106.8	88.9	92.2	98.1	90.5	78.7	92.2
1847	707.5	4,208.2	130.8	97.0	81.6	100.5	93.3	78.6	97.9
1848	629.4	3,437.1	92.7	91.7	64.8	82.3	73.7	69.9	79.9
1849	621.2	3,286.2	80.2	78.5	73.1	80.4	77.4	69.0	76.4
1850	666.3	3,396.2	75.0	73.5	82.4	80.4	90.4	74.0	79.0
1851	653.8	3,314.6	73.1	75.2	79.2	77.6	86.2	72.6	77.1
1852	702.3	3,473.6	80.4	75.7	71.3	83.4	91.2	78.0	80.8
1853	829.4	4,168.4	101.6	91.1	82.0	109.0	99.7	92.2	96.9
1854	942.6	4,567.2	121.5	96.2	79.9	120.7	101.9	104.7	106.2
1855	888.8	4,434.8	120.7	96.3	84.2	113.5	96.9	98.8	103.1
1856	884.7	4,420.8	109.9	97.0	92.1	113.9	101.5	98.3	102.8
1857	976.9	4,596.3	105.7	98.0	117.1	111.8	105.6	108.5	106.9
1858	838.0	4,012.0	87.8	91.8	91.1	99.1	96.4	93.1	93.3
1859	871.5	4,094.0	86.2	94.0	95.1	100.2	99.1	96.8	95.2
1860	900.0	4,300.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	895.8	4,284.7	103.1	99.9	90.4	94.4	105.3	99.5	99.6
1862	869.1	4,537.1	99.3	95.3	93.4	93.9	146.9	96.6	105.5
1863	829.3	4,698.8	88.1	94.3	94.2	96.5	181.6	92.1	109.3
1864	808.6	4,830.3	79.7	98.3	100.9	100.7	198.5	89.8	112.3
1865	801.6	4,549.3	84.6	107.4	92.3	96.3	159.5	89.1	105.8
1866	814.3	4,578.8	96.2	106.2	89.3	96.3	152.5	90.5	106.5
1867	822.0	4,466.2	115.8	98.1	89.9	92.4	128.1	91.3	103.9
1868	852.0	4,432.9	114.6	97.1	89.0	90.0	128.4	94.7	103.1
1869	845.6	4,383.2	92.1	105.8	92.7	93.7	129.2	94.0	101.9
1870	835.5	4,311.7	88.8	108.0	89.6	94.2	124.0	92.8	100.3
1871	850.9	4,411.1	96.0	111.2	94.6	98.0	118.6	94.5	102.6
1872	850.5	4,835.5	102.3	112.5	100.0	137.1	127.4	94.5	112.5
1873	850.8	5,012.2	109.2	120.6	103.3	156.3	117.1	94.5	116.6
1874	806.3	4,599.9	106.5	114.0	102.7	127.5	105.0	89.6	107.0
1875	767.4	4,311.7	94.2	119.8	97.3	109.7	99.4	85.3	100.3
1876	764.8	4,193.5	94.1	120.0	96.6	97.0	96.3	85.0	97.5
1877	783.4	4,186.2	101.5	112.4	101.0	90.3	96.0	87.0	97.4
1878	741.6	3,923.6	97.0	111.4	88.9	79.5	88.7	83.0	91.2
1879	732.4	3,730.1	88.6	103.6	85.2	78.1	84.6	81.4	86.7
1880	770.7	3,947.6	90.7	111.8	86.3	84.1	91.9	85.6	91.8
1881	743.0	3,807.1	85.0	112.0	81.8	81.0	88.2	82.6	88.5
1882	739.9	3,785.9	85.1	114.8	73.9	83.6	85.0	82.2	88.0
1883	721.1	3,699.3	83.3	114.5	75.3	80.4	80.9	80.1	86.0
1884	690.5	3,408.6	72.7	107.3	61.4	72.9	78.7	76.7	79.3
1885	656.5	3,242.3	69.6	97.8	60.4	71.0	75.8	72.9	75.4
1886	607.0	3,111.9	66.2	96.3	58.4	70.6	71.7	67.4	72.4
1887	580.0	3,038.7	65.5	87.0	55.2	72.9	74.4	64.4	70.7
1888	578.1	3,176.8	68.2	91.2	64.9	80.1	74.3	64.2	73.9
1889	584.9	3,299.6	65.7	95.2	75.6	81.1	81.6	65.0	76.7
1890	587.1	3,267.4	66.6	91.1	71.7	87.4	76.5	65.2	76.0
1891	568.1	3,241.3	76.6	89.5	72.9	83.1	68.9	65.3	75.4

In the foregoing table we have been able, with two exceptions, to reproduce exactly Mr. Sauerbeck's figures, based upon 1860 instead of the base line used by him.

Petroleum and soda crystals disappear altogether, but without materially affecting the general result.

It is, therefore, substantially the same table, and we may compare it with the figures for the United States based on 1860 prices. A simple average of 43 quotations would show the same result as an average of 223 if all moved in the same direction, and the difference in number should not deter us from examining into the difference between Mr. Sauerbeck's results and our own. If we consider Mr. Sauerbeck's group figures we shall notice considerable similarity in all the relative prices for 1891. They are:

Food	80.4
Minerals	83.1
Textile materials	68.0
Sundry materials	65.3

The decline is general, and ranges from 16.9 per cent to 34.7 per cent. The one group in our calculations which we can compare directly with Mr. Sauerbeck's figures is food. It stood in 1891 at 103.9. While our grouping is a different one, it is marked with greater variety in the relative price. The fact that food has risen in price in the United States and fallen in England, by these tables, would account sufficiently for the discrepancy in the results.

If we turn now to the other result of our own calculations, to which attention has been called—that is, 94.4 as the relative price of 1891—we have additional reasons why an agreement is not to be expected. The grouping becomes a different one. The influence of various groups in the total is as follows:

TABLE 65.—*Comparison of Mr. Sauerbeck's average with weighted average of the United States.*

Group.	Per cent of Sauerbeck's total.	Per cent of 68.60 per cent of total expenditure.
Meat	13.6	17.5
Other food	29.6	42.2
Total food	43.2	59.7
Clothing	22.7	22.3
Fuel	4.5	7.3
All other	29.6	10.7
	100.0	100.0

These differences must of course have their effect upon the general result. A method of comparison which will effectually demonstrate whether the difference in the results is due to differences in the methods or in the prices would be to obtain an average for the United States for the same 44 articles as figure in Mr. Sauerbeck's table. This is unfortunately impossible in an absolute sense. Certain articles are missing in the list of prices here, but we may substitute the articles which are most nearly equivalent. Such a calculation shows a relative price in 1891 of 84.8 in the United States as against 75.4 in England, both comparisons comprising the same articles and being made with the year 1860.

It is apparent, therefore, that there is a difference in the two countries and that prices have fallen more rapidly in England than in the United States on the basis adopted by Mr. Sauerbeck. Whether or not his method is adequate for measuring the general level of prices is a totally distinct question.

The answer will depend largely upon what is considered the standard of the general level of prices. If it be the prices ruling in the great wholesale market, then the method of Mr. Sauerbeck is correct, and it is proper to say that the general level of prices in the United States was in 1891 fifteen per cent below that of 1860. If, on the other hand, the general level of prices be taken to mean the prices of all articles affecting the consumer, then this method is insufficient, and it is correct to say that prices had fallen in 1891 in the United States only five and a half per cent below the level of 1860. This was the result of our former calculations, which showed in 1891 a relative price compared with 1860 of 94.4 for that portion of family expenditure directly affected by changes in price.

GERMANY—HAMBURG PRICES.

The most complete price statistics which have been made the subject of economic studies by European writers are those published by the bureau of commercial statistics of Hamburg. The series of prices begins in 1847 and covers more than three hundred articles. The method of ascertaining annual prices gives them a special importance.

All goods imported into Hamburg are reported to the bureau of commercial statistics. These reports contain a statement of the kind of goods and their weight, to which is added their value, calculated by the price of the article upon the day in question on the Hamburg exchange. For goods not quoted on the exchange the invoice value, plus freight, insurance, and other charges, must be given.

The yearly trade statements are made up from these reports. Having the total quantity and total value, the calculation of the average price is a simple arithmetical calculation. But in view of the peculiar circumstances of Hamburg as a free harbor, and of the fact that the declared values are based upon ruling Hamburg prices, the results have a high value quite unusual for import prices.

Calculations upon the basis described have been made since 1847. Prior to that time there was no such statistical organization. Nor can the necessary materials be found for carrying these calculations further into the past.

The figures which were thus obtained were made the basis of important studies by the late Dr. Soetbeer and others. Their work can be readily continued down to 1888.

After that date there are many difficulties arising from the fact that in 1888 Hamburg became a part of the German customs union. Before 1888 all goods which entered Hamburg, whether by sea or river, by rail or by wagon, found a place in the statistics. Thus all goods not produced in Hamburg, and these were not numerous, were represented.

But in 1888 all this was changed. Goods arriving otherwise than by sea were no longer subject to inspection and supervision. Hence all prices must now be confined exclusively to such articles as are imported by sea. For those articles which were in the past entirely or in the main imported in this manner, the continuity of the quotations has not been disturbed. But with goods arriving in large quantities by land the comparability of the figures has been lost.

To restore in a measure the comparability of the figures, the director of the bureau has undertaken the very arduous task of overhauling all the old records of his department, and has distinguished the importations by sea from all other importations. On this basis he has obtained the prices by sea importations of a large number of articles since 1850. These valuable figures have been very courteously transmitted to me in manuscript, they not having been published in Germany. They follow this report as Exhibit A. It would have been desirable to enter into an analysis of these figures, but, unfortunately, the limited time at our disposal has prevented such an undertaking.

The distinguished Dr. Adolf Soetbeer published in 1886 a remarkable study of the Hamburg prices. He selected from the publications of the Hamburg bureau nearly one hundred leading articles. To these he added several articles, such as potatoes, meat, etc., whose prices were obtained from the records of hospitals and other institutions of Hamburg. In order that manufactures might not be neglected, he introduced fourteen articles of British export. This brought his total up to one hundred and fourteen, and taking the years 1847–1850 as a basis of one hundred, he constructed relative prices, which he carried down to 1885.

It was our purpose to continue these figures, if possible, down to the present time. We are enabled to do so through the kindly assistance of Mr. Heinz, the director of the bureau of commercial statistics in Hamburg.

Attention has already been called to the changes in the methods of the statistics since 1888, which rendered the continuation of Dr. Soetbeer's tables very difficult. In his letter Mr. Heinz says:

> Prof. Soetbeer made a most urgent request that if in any way it were practicable or possible, I should continue by means of subsidiary material or expert estimates, the former average prices from 1847 to 1888, as they had been published in his *Materialien*, including the importations by land and river, and so to preserve the continuity of these researches, which was so much to be desired. After overcoming many earnest scruples in the matter, I at length determined that I ought to accede to the repeated requests which were made to me in this particular.

By using the market reports and all other available information which his ripe experience offered, Mr. Heinz prepared a continuation of the Soetbeer tables until the year 1891. The Hamburg prices followed by Dr. Soetbeer's calculations are given in Tables 66 to 70.(*a*)

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures.*

PRODUCTS OF AGRICULTURE.

Year.	1. Wheat.		2. Wheat flour.		3. Rye.		4. Rye flour.		5. Oats.	
	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per bushel.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1851	16.62	$1.077	25.02	$0.027	13.80	$0.834	16.62	$0.018	14.40	$0.497
1852	17.40	1.127	27.42	.030	14.40	.871	20.77	.022	13.62	.471
1853	21.06	1.364	32.82	.035	16.56	1.001	22.32	.024	15.54	.537
1854	30.18	1.955	41.28	.045	21.48	1.299	27.42	.030	18.00	.622
1855	31.20	2.021	45.18	.049	23.28	1.407	30.48	.033	17.28	.597
1856	29.28	1.897	42.00	.045	21.54	1.302	28.62	.031	16.68	.576
1857	22.50	1.457	33.30	.036	15.36	.929	27.24	.029	15.42	.533
1858	18.48	1.197	28.56	.031	13.68	.827	22.80	.025	14.40	.497
1859	19.68	1.275	27.48	.030	14.04	.849	21.96	.024	14.34	.495
1860	23.04	1.492	32.46	.035	15.90	.961	21.42	.023	15.06	.520
1861	24.60	1.593	34.92	.038	15.66	.947	23.88	.026	14.64	.506
1862	23.10	1.496	31.56	.034	16.98	1.027	22.92	.025	13.68	.473
1863	19.92	1.290	26.88	.029	15.30	.925	19.08	.021	11.64	.402
1864	16.68	1.080	24.60	.027	12.18	.736	16.38	.018	13.20	.456
1865	17.28	1.119	25.50	.028	13.62	.823	17.88	.019	15.42	.533
1866	20.34	1.318	29.28	.032	15.42	.932	21.96	.024	15.72	.543
1867	28.44	1.842	34.98	.038	21.30	1.288	26.34	.028	17.10	.591
1868	27.30	1.768	33.12	.036	20.94	1.266	25.98	.028	18.30	.633
1869	20.88	1.352	30.06	.032	17.58	1.063	21.06	.023	17.52	.605
1870	20.10	1.302	29.76	.032	15.66	.947	21.72	.023	14.54	.502
1871	23.96	1.552	31.90	.034	18.70	1.131	21.32	.023	15.58	.538
1872	24.92	1.614	34.42	.037	15.82	.956	22.94	.025	15.02	.519
1873	25.94	1.680	36.52	.039	18.16	1.098	25.16	.027	16.50	.570
1874	23.32	1.511	34.56	.037	18.48	1.117	25.26	.027	18.48	.638
1875	20.50	1.328	28.38	.031	16.64	1.006	22.70	.025	17.68	.611
1876	21.24	1.376	29.62	.032	17.20	1.040	24.06	.026	17.44	.602
1877	24.32	1.575	31.54	.034	17.72	1.071	23.94	.026	16.88	.583
1878	21.42	1.387	31.34	.034	14.32	.866	22.26	.024	14.41	.498
1879	21.36	1.384	31.46	.034	14.50	.877	21.50	.023	14.06	.486
1880	21.74	1.408	31.67	.034	18.37	1.111	25.33	.027	14.85	.513
1881	22.21	1.439	33.32	.036	19.76	1.195	25.66	.028	15.75	.544
1882	20.43	1.323	32.03	.035	16.07	.972	21.09	.023	15.52	.536
1883	18.66	1.209	28.87	.031	14.48	.875	17.97	.019	13.74	.475
1884	16.78	1.087	24.50	.026	13.97	.845	18.03	.019	13.74	.475
1885	15.33	.993	22.67	.024	12.21	.738	16.82	.018	13.79	.476
1886	15.06	.976	21.10	.023	11.05	.668	15.34	.017	13.06	.451
1887	15.03	.974	20.69	.022	11.06	.669	14.24	.015	11.01	.380
1888	15.59	1.010	21.29	.023	11.76	.711	12.35	.013	10.15	.351
1889	14.34	.929	20.25	.022	10.83	.655	15.01	.016	11.92	.412
1890	14.86	.963	21.22	.023	12.72	.769	17.00	.018	12.89	.445
1891	18.85	1.221	24.20	.026	17.31	1.046	23.50	.024	13.80	.477

(*a*) These tables as originally prepared to 1885, inclusive, are to be found in Consular Report, December 1887.

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures*—Continued.

PRODUCTS OF AGRICULTURE—Continued.

Year.	6. Barley.		7. Malt.		8. Buckwheat.		9. Pease.		10. Beans.	
	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per bushel.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1851	12.00	$0.622	14.22	$0.015	10.20	$0.011	11.58	$0.800	26.58	$1.722
1852	15.18	.787	22.20	.024	14.58	.016	13.20	.912	26.40	1.710
1853	14.82	.768	21.36	.023	19.48	.021	17.46	1.206	32.34	2.095
1854	18.78	.973	22.32	.024	18.84	.020	18.84	1.302	27.90	1.807
1855	18.24	.945	29.28	.032	18.66	.020	18.78	1.298	33.18	2.149
1856	19.62	1.017	30.18	.033	18.60	.020	14.10	.974	27.24	1.764
1857	17.70	.917	27.54	.030	17.04	.018	18.00	1.244	22.92	1.485
1858	14.82	.768	25.02	.027	15.06	.016	17.82	1.231	24.00	1.555
1859	15.96	.827	21.24	.023	12.72	.014	17.40	1.202	24.54	1.590
1860	16.98	.880	21.60	.023	15.18	.016	17.82	1.231	25.20	1.632
1861	16.98	.880	24.54	.026	15.66	.017	17.64	1.219	25.26	1.636
1862	16.32	.846	22.68	.024	14.80	.016	17.88	1.235	24.48	1.586
1863	15.24	.790	22.38	.024	13.44	.015	14.40	.995	21.84	1.415
1864	13.32	.690	19.74	.021	13.80	.015	12.90	.891	23.16	1.500
1865	15.78	.818	18.72	.020	13.92	.015	15.06	1.041	26.76	1.733
1866	18.90	.979	28.08	.030	14.82	.016	17.64	1.219	25.92	1.679
1867	19.92	1.032	29.52	.032	15.72	.017	18.72	1.293	25.56	1.656
1868	21.16	1.096	27.36	.030	18.48	.020	20.58	1.422	27.18	1.761
1869	20.52	1.063	26.46	.029	17.94	.019	18.72	1.293	24.12	1.562
1870	16.20	.839	23.40	.025	16.56	.018	17.40	1.202	27.36	1.772
1871	18.34	.950	24.04	.026	15.98	.017	18.26	1.262	24.38	1.579
1872	21.90	1.135	26.58	.029	16.14	.017	18.96	1.310	24.82	1.608
1873	22.82	1.183	28.64	.031	17.68	.019	22.26	1.538	38.80	2.513
1874	22.14	1.147	32.60	.035	17.76	.019	21.12	1.459	26.74	1.732
1875	21.84	1.132	30.00	.032	17.04	.018	20.68	1.429	23.76	1.539
1876	19.50	1.010	29.24	.032	19.42	.021	20.80	1.437	23.00	1.490
1877	20.94	1.085	29.82	.032	17.86	.019	20.12	1.390	25.36	1.643
1878	20.18	1.046	29.90	.032	16.18	.017	19.08	1.318	22.32	1.446
1879	21.90	1.135	28.42	.031	17.28	.019	19.34	1.336	24.30	1.574
1880	21.18	1.098	30.52	.033	18.48	.020	20.06	1.386	26.53	1.718
1881	20.89	1.083	29.84	.032	16.47	.018	20.89	1.443	26.12	1.692
1882	19.90	1.031	28.88	.031	17.16	.018	21.10	1.458	24.81	1.607
1883	17.37	.900	28.82	.031	21.80	.024	18.42	1.273	25.19	1.632
1884	16.13	.836	29.45	.032	15.32	.017	18.43	1.273	24.67	1.598
1885	14.29	.740	27.72	.030	16.27	.018	17.68	1.222	23.62	1.530
1886	15.57	.807	26.51	.029	13.78	.015	15.05	1.040	20.04	1.298
1887	13.08	.675	27.02	.029	11.60	.013	15.06	1.041	20.52	1.329
1888	14.71	.762	24.78	.027	11.97	.013	15.62	1.079	20.94	1.356
1889	14.15	.733	26.95	.029	12.68	.014	15.05	1.040	20.89	1.353
1890	13.84	.717	28.00	.030	12.39	.013	14.59	1.008	22.06	1.429
1891	14.47	.750	29.99	.032	15.44	.017	16.81	1.161	21.54	1.395

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures*—Continued.

PRODUCTS OF AGRICULTURE—Continued.

Year.	11. Potatoes.		12. Hops.		13. Clover seed.		14. Rape-seed.		15. Rape-seed oil.	
	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1851	4.56	$0.295	134.40	$0.145	73.68	$4.773	22.02	$0.024	63.42	$0.068
1852	4.96	.321	151.20	.163	86.70	5.616	23.82	.026	66.60	.072
1853	6.47	.419	196.08	.212	97.14	6.292	28.68	.031	68.16	.074
1854	6.92	.448	282.12	.305	109.32	7.081	29.58	.032	83.82	.090
1855	7.16	.464	216.54	.234	112.47	7.285	43.02	.046	106.86	.115
1856	7.27	.471	125.82	.136	125.10	8.103	36.54	.039	95.58	.103
1857	5.30	.343	129.78	.140	116.49	7.546	33.18	.036	96.30	.104
1858	3.69	.239	119.16	.129	110.58	7.163	32.34	.035	80.04	.086
1859	4.16	.269	166.26	.179	119.67	7.752	26.64	.029	71.58	.077
1860	6.11	.396	298.32	.322	109.41	7.087	29.52	.032	79.80	.086
1861	7.62	.494	198.90	.215	104.40	6.762	30.42	.033	76.44	.083
1862	4.85	.314	153.54	.166	98.88	6.405	35.22	.038	89.86	.097
1863	4.79	.310	203.10	.219	95.52	6.187	31.20	.034	85.14	.092
1864	5.19	.336	232.80	.251	93.72	6.071	31.62	.034	79.38	.086
1865	5.25	.340	253.44	.274	133.32	8.636	33.60	.036	83.28	.090
1866	5.54	.359	326.76	.353	127.56	8.263	30.18	.033	84.66	.091
1867	7.04	.456	261.72	.283	145.80	9.444	29.82	.032	72.36	.078
1868	5.94	.385	185.10	.200	115.40	7.475	27.42	.030	66.00	.071
1869	5.65	.366	164.40	.177	98.88	6.405	31.32	.034	69.48	.075
1870	5.62	.364	186.48	.201	115.56	7.485	34.86	.038	89.10	.096
1871	6.30	.408	288.00	.311	131.54	8.520	36.74	.040	80.68	.087
1872	6.60	.428	280.98	.303	122.74	7.950	31.78	.034	74.82	.081
1873	6.59	.427	283.24	.306	102.34	6.629	28.04	.030	63.84	.069
1874	7.15	.463	382.14	.413	108.20	7.009	25.60	.028	66.36	.072
1875	6.65	.431	289.06	.312	112.64	7.296	29.06	.031	65.64	.071
1876	6.72	.435	278.22	.300	136.80	8.861	31.22	.034	68.58	.074
1877	7.70	.499	252.94	.273	139.40	9.030	33.12	.036	74.59	.080
1878	7.46	.483	195.54	.211	111.64	7.231	29.32	.032	67.74	.073
1879	7.90	.512	240.88	.260	102.54	6.642	26.54	.029	59.46	.064
1880	7.78	.504	234.72	.253	105.95	6.863	23.96	.026	57.40	.062
1881	6.25	.405	229.41	.248	99.04	6.415	27.94	.030	58.62	.063
1882	5.06	.328	370.50	.400	103.64	6.713	29.52	.032	58.13	.063
1883	6.15	.398	464.23	.501	130.77	8.471	30.85	.033	71.58	.077
1884	5.64	.365	312.77	.338	113.38	7.344	24.81	.027	64.27	.069
1885	5.47	.354	218.11	.235	101.43	6.570	23.39	.025	54.09	.058
1886	5.45	.353	191.49	.207	95.13	6.162	24.36	.026	48.24	.052
1887	5.40	.350	177.99	.192	89.56	5.801	22.34	.024	50.77	.055
1888	6.77	.439	187.79	.203	88.79	5.751	23.91	.026	50.88	.054
1889	6.50	.421	184.94	.200	93.82	6.077	25.10	.027	52.10	.056
1890	6.85	.444	240.03	.259	83.56	5.413	25.64	.028	58.08	.063
1891	8.71	.564	240.00	.259	92.72	6.006	25.16	.027	58.10	.057

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures*—Continued.

PRODUCTS OF AGRICULTURE—Concluded.

Year.	16. Linseed oil.		17. Oil cake.		18. Raw sugar.		19. Refined sugar.		20. Spirits from grain or potatoes.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per hectoliter.	Per gallon.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1851	66.42	$0.072	8.22	$0.009	42.60	$0.046	52.02	$0.056	32.35	$0.291
1852	60.42	.065	9.00	.010	40.38	.044	50.82	.054	45.10	.406
1853	61.56	.066	10.68	.012	46.44	.050	56.82	.061	52.51	.473
1854	75.60	.082	12.06	.013	47.52	.051	55.56	.060	72.00	.649
1855	80.10	.086	13.86	.015	49.74	.054	66.54	.072	70.25	.633
1856	78.42	.085	13.08	.014	64.14	.069	77.34	.083	66.70	.601
1857	79.80	.086	13.14	.014	72.54	.078	89.10	.096	54.26	.489
1858	64.38	.070	13.32	.014	53.04	.057	73.68	.080	35.37	.319
1859	59.88	.065	11.82	.013	52.02	.056	70.02	.076	39.47	.356
1860	59.58	.064	10.68	.012	53.82	.058	67.06	.073	46.52	.419
1861	65.10	.070	10.62	.011	44.58	.049	67.14	.072	51.04	.460
1862	79.20	.086	13.26	.014	44.40	.048	63.72	.068	44.33	.399
1863	80.22	.093	12.84	.014	44.04	.048	62.64	.068	39.31	.354
1864	70.32	.082	11.40	.012	54.48	.059	72.12	.078	39.37	.355
1865	70.44	.076	15.12	.016	45.36	.049	61.74	.067	35.58	.321
1866	80.16	.087	12.60	.014	43.50	.047	63.12	.068	36.66	.330
1867	77.04	.083	12.60	.014	44.04	.048	63.48	.069	47.67	.429
1868	69.18	.075	15.90	.017	47.28	.051	67.14	.072	48.98	.441
1869	64.62	.070	15.78	.017	54.72	.059	71.76	.077	45.12	.407
1870	66.66	.072	16.32	.013	51.96	.056	68.82	.074	39.54	.356
1871	70.10	.076	15.10	.016	72.98	.079	74.40	.080	43.12	.388
1872	72.22	.078	17.36	.019	53.00	.057	75.86	.082	43.92	.396
1873	69.96	.076	15.08	.016	51.24	.055	70.38	.076	46.52	.419
1874	63.28	.068	14.82	.016	50.36	.054	64.98	.070	46.65	.420
1875	53.80	.058	16.08	.017	46.30	.050	62.06	.067	36.23	.326
1876	56.16	.061	16.28	.018	47.88	.052	61.14	.066	34.87	.314
1877	61.60	.066	16.06	.017	56.38	.061	68.98	.074	38.30	.345
1878	59.10	.064	16.94	.018	55.58	.060	61.30	.066	39.55	.356
1879	57.84	.062	15.46	.017	51.24	.055	57.56	.062	40.37	.364
1880	60.05	.065	15.06	.016	51.21	.055	60.33	.065	46.05	.415
1881	58.06	.063	15.53	.017	50.57	.055	59.50	.064	46.97	.423
1882	54.81	.059	14.94	.016	49.37	.053	58.02	.063	39.20	.353
1883	49.93	.054	13.98	.015	46.57	.050	55.85	.060	41.57	.375
1884	46.01	.050	13.25	.014	36.66	.040	46.79	.055	37.62	.339
1885	49.55	.053	12.22	.013	26.59	.029	38.82	.042	33.23	.299
1886	44.89	.048	10.98	.012	24.04	.026	37.33	.040	24.07	.217
1887	43.34	.047	11.28	.012	25.20	.027	32.93	.036	23.52	.212
1888	39.78	.043	12.01	.013	24.16	.026	37.42	.040	20.52	.185
1889	44.11	.048	12.71	.014	33.47	.036	40.50	.044	20.00	.180
1890	48.85	.053	12.38	.013	27.85	.030	39.19	.042	23.34	.210
1891	48.40	.052	12.57	.014	28.51	.031	38.13	.041	36.38	.328

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures*—Continued.

ANIMAL AND FISH PRODUCTS.

Year.	21. Beef.		22. Veal.		23. Mutton.		24. Pork.		25. Milk.		26. Butter.	
	Per kilo.	Per pound.	Per kilo.	Per pound.	Per kilo.	Per pound.	Per kilo.	Per pound.	Per liter.	Per pound.	Per kilo.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1851	0.64	$0.069	0.70	$0.076	0.95	$0.103	0.99	$0.107	0.067	$0.015	1.22	$0.132
1852	.58	.063	.64	.069	.95	.103	.99	.107	.067	.015	1.22	.132
1853	.62	.067	.72	.078	.95	.103	.99	.107	.067	.015	1.54	.166
1854	.65	.070	.74	.080	.95	.103	.99	.107	.067	.015	1.67	.180
1855	.79	.085	.86	.093	.95	.103	1.10	.119	.067	.015	1.74	.188
1856	.76	.082	.83	.090	.95	.103	1.06	.114	.067	.015	1.93	.208
1857	.72	.078	.82	.089	.95	.103	1.01	.109	.067	.015	1.86	.201
1858	.72	.078	.82	.089	.95	.103	.96	.104	.067	.015	1.95	.211
1859	.65	.070	.74	.080	.95	.103	.90	.097	.067	.015	1.84	.199
1860	.62	.067	.72	.078	.95	.103	.94	.101	.067	.015	1.99	.215
1861	.69	.074	.74	.080	.95	.103	.94	.101	.06	.014	1.71	.185
1862	.79	.085	.82	.089	1.05	.113	1.05	.113	.07	.016	1.66	.179
1863	.77	.083	.79	.085	1.06	.114	1.05	.113	.06	.014	1.56	.168
1864	.80	.086	.83	.090	1.06	.114	1.05	.113	.06	.014	1.80	.194
1865	.88	.095	1.02	.110	.83	.090	1.05	.113	.11	.025	1.95	.211
1866	.96	.104	1.04	.112	1.00	.108	.97	.105	.10	.023	1.91	.206
1867	1.02	.110	1.04	.112	.99	.107	.93	.100	.10	.023	1.76	.190
1868	.98	.106	1.07	.116	1.01	.109	1.01	.109	.11	.025	2.17	.234
1869	1.00	.108	1.05	.113	1.05	.113	1.12	.121	.11	.025	2.14	.231
1870	1.00	.108	1.02	.110	1.11	.120	1.05	.113	.10	.023	1.88	.203
1871	1.08	.117	1.11	.120	1.18	.127	.93	.100	.10	.023	2.04	.220
1872	1.10	.119	1.24	.134	1.49	.161	1.07	.116	.12	.027	1.99	.215
1873	1.22	.132	1.24	.134	1.08	.117	1.18	.127	.12	.027	2.28	.246
1874	1.19	.128	1.38	.149	1.22	.132	1.095	.118	.13	.027	2.59	.280
1875	1.17	.126	1.205	.130	1.31	.141	1.17	.126	.14	.032	2.40	.259
1876	1.23	.133	1.44	.155	1.52	.164	1.09	.118	.13	.029	2.61	.282
1877	1.25	.135	1.52	.164	1.49	.161	1.10	.119	.14	.032	2.34	.253
1878	1.245	.134	1.45	.157	1.45	.157	1.02	.110	.14	.032	2.19	.236
1879	1.14	.123	1.38	.149	1.40	.151	1.00	.108	.13	.029	2.02	.218
1880	1.21	.131	1.41	.152	1.43	.154	1.14	.123	.13	.027	2.33	.250
1881	1.09	.118	1.46	.158	1.45	.157	1.24	.134	.13	.027	2.41	.260
1882	1.18	.127	1.47	.159	1.51	.163	1.16	.125	.13	.027	2.40	.259
1883	1.19	.128	1.51	.163	1.62	.175	1.09	.118	.13	.027	2.30	.248
1884	1.16	.125	1.52	.164	1.46	.158	1.01	.109	.13	.027	2.26	.244
1885	1.08	.117	1.50	.162	1.32	.142	1.01	.109	.13	.027	2.13	.230
1886	1.08	.117	1.49	.161	1.36	.147	1.08	.117	.11	.026	2.01	.217
1887	1.04	.112	1.51	.163	1.24	.134	1.03	.111	.10	.023	2.07	.223
1888	1.01	.109	1.56	.168	1.29	.139	1.02	.110	.10	.023	2.16	.233
1889	1.07	.116	1.48	.160	1.28	.138	1.20	.130	.10	.023	2.37	.256
1890	1.13	.122	1.51	.163	1.37	.148	1.27	.137	.11	.026	2.20	.238
1891	1.18	.127	1.51	.163	1.26	.136	1.20	.130	.11	.026	2.25	.243

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures*—Continued.

ANIMAL AND FISH PRODUCTS—Continued.

Year.	27. Cheese.		28. Tallow.		29. Lard.		30. Hides.		31. Calf skins.		32. Leather.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1851	78.42	$0.085	70.20	$0.076	100.62	$0.109	89.39	$0.097	162.60	$0.176	302.86	$0.327
1852	82.20	.089	78.18	.084	106.38	.115	84.21	.091	139.38	.150	305.96	.330
1853	91.92	.099	97.68	.105	115.20	.124	102.66	.111	167.10	.180	264.47	.286
1854	101.58	.110	118.20	.128	116.22	.125	109.17	.118	211.44	.228	285.58	.308
1855	107.40	.116	108.18	.117	117.00	.126	112.51	.121	203.46	.220	338.17	.365
1856	104.52	.113	103.68	.112	121.92	.132	129.02	.139	239.58	.259	371.89	.401
1857	108.66	.117	108.60	.117	126.18	.136	173.21	.187	294.06	.317	428.97	.463
1858	104.46	.113	95.70	.103	104.76	.113	118.08	.127	207.00	.223	370.11	.400
1859	103.50	.112	105.78	.114	103.56	.112	134.79	.146	280.74	.303	414.12	.447
1860	107.76	.116	107.22	.116	112.98	.122	143.09	.154	313.08	.338	437.81	.473
1861	98.92	.107	102.96	.111	107.16	.116	120.12	.130	239.82	.259	370.22	.400
1862	98.10	.106	92.82	.100	88.86	.096	115.62	.125	225.00	.243	405.34	.438
1863	108.30	.117	82.14	.089	75.78	.082	103.18	.111	250.32	.270	409.78	.442
1864	103.02	.111	78.36	.085	97.56	.105	106.34	.115	275.28	.297	437.41	.472
1865	105.48	.114	83.10	.090	134.46	.145	99.60	.108	265.98	.287	429.00	.463
1866	111.18	.120	82.38	.089	118.80	.128	99.48	.107	243.30	.263	485.13	.524
1867	114.96	.124	92.34	.100	104.10	.112	103.38	.112	250.56	.270	354.31	.382
1868	109.02	.118	89.70	.097	124.02	.134	115.80	.125	257.10	.278	293.99	.317
1869	115.68	.125	89.40	.097	129.72	.140	105.00	.113	249.00	.269	335.44	.362
1870	110.16	.119	88.56	.096	125.16	.135	112.38	.121	249.24	.269	339.13	.366
1871	114.20	.123	87.90	.095	102.50	.111	129.96	.140	267.22	.288	315.54	.341
1872	128.40	.139	86.50	.093	80.82	.087	151.56	.164	300.16	.324	365.94	.395
1873	128.32	.139	84.22	.091	86.52	.093	156.48	.169	298.46	.322	334.28	.361
1874	126.84	.137	82.46	.089	105.96	.114	148.72	.161	270.70	.292	390.72	.422
1875	127.56	.138	87.02	.094	122.18	.132	136.28	.147	240.56	.260	305.74	.330
1876	128.28	.138	87.92	.095	111.80	.121	111.60	.120	193.36	.209	320.14	.346
1877	139.04	.150	85.92	.093	97.92	.106	112.94	.122	175.58	.190	300.68	.325
1878	123.16	.133	81.70	.088	78.04	.084	104.68	.113	161.00	.174	260.74	.281
1879	115.96	.125	70.98	.077	72.74	.079	104.24	.113	175.78	.190	264.30	.285
1880	120.25	.130	69.60	.075	84.08	.091	116.90	.126	212.43	.229	301.25	.325
1881	122.42	.132	73.83	.080	112.12	.121	119.23	.129	195.65	.211	314.37	.339
1882	114.18	.123	87.04	.094	116.72	.126	116.82	.126	196.63	.212	318.37	.344
1883	117.74	.127	89.81	.097	98.97	.107	117.14	.126	194.80	.210	360.17	.389
1884	114.92	.124	75.88	.082	80.25	.087	117.26	.127	188.64	.204	371.18	.401
1885	103.77	.112	69.81	.075	67.95	.073	117.80	.127	190.32	.205	330.26	.357
1886	167.50	.181	56.90	.061	64.39	.070	106.89	.115	180.43	.195	336.53	.363
1887	172.50	.186	55.98	.060	69.64	.075	103.69	.112	162.67	.176	330.34	.357
1888	180.00	.194	52.86	.057	85.34	.092	93.58	.101	147.83	.160	307.15	.332
1889	197.50	.213	62.26	.067	76.49	.083	90.81	.098	127.01	.137	339.61	.367
1890	183.33	.198	55.93	.060	67.71	.073	86.89	.094	138.58	.150	858.35	.287
1891	187.50	.203	55.90	.060	66.45	.072	86.38	.093	135.30	.146	342.33	.370

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures*—Continued.

ANIMAL AND FISH PRODUCTS—Continued.

Year.	32. Horsehair.		34. Bristles.		35. Feathers.		36. Bone.		37. Ox horns.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1851	376.20	$0.406	412.62	$0.445	174.18	$0.188	8.40	$0.009	51.42	$0.056
1852	291.60	.315	426.00	.460	185.22	.200	8.58	.009	55.80	.060
1853	377.70	.408	494.82	.534	186.54	.201	9.24	.010	57.24	.062
1854	338.88	.366	625.56	.675	168.24	.182	9.54	.010	52.26	.056
1855	263.88	.285	485.16	.524	188.76	.204	10.86	.012	42.72	.046
1856	417.48	.451	422.16	.456	184.02	.199	10.68	.012	47.04	.051
1857	457.38	.494	484.86	.523	180.00	.194	11.22	.012	58.92	.064
1858	387.84	.419	443.04	.478	175.26	.189	10.38	.011	69.84	.075
1859	416.64	.450	448.50	.484	178.32	.193	10.74	.012	72.42	.078
1860	400.80	.433	634.02	.684	164.28	.177	9.18	.010	82.26	.089
1861	340.38	.367	475.50	.513	165.72	.179	9.54	.010	70.62	.076
1862	338.22	.365	466.62	.504	175.08	.189	9.54	.010	64.80	.070
1863	346.14	.374	372.06	.402	165.30	.178	9.84	.011	64.44	.070
1864	321.90	.348	532.92	.575	156.54	.169	9.66	.010	59.52	.064
1865	303.00	.327	503.64	.544	172.44	.186	9.54	.010	68.70	.074
1866	272.10	.294	555.18	.599	174.18	.188	9.96	.011	71.10	.077
1867	344.10	.371	501.06	.541	168.48	.182	10.14	.011	83.22	.090
1868	372.84	.403	423.48	.457	178.32	.193	9.06	.010	70.74	.076
1869	439.50	.474	442.50	.478	185.82	.200	11.76	.013	96.06	.104
1870	414.06	.447	549.90	.594	217.14	.234	12.36	.013	73.20	.079
1871	546.46	.590	565.10	.610	211.56	.228	12.02	.013	69.24	.075
1872	451.92	.488	730.92	.789	216.72	.234	13.04	.014	84.22	.091
1873	427.26	.461	819.90	.885	245.52	.265	12.78	.014	64.64	.070
1874	363.92	.393	725.42	.783	245.10	.265	14.06	.015	74.94	.081
1875	400.62	.432	734.14	.793	298.36	.322	15.50	.017	84.14	.091
1876	317.34	.343	767.10	.828	266.10	.287	13.48	.015	82.80	.089
1877	271.42	.293	730.12	.788	212.32	.229	12.80	.014	98.02	.106
1878	261.26	.282	643.28	.694	190.32	.205	12.14	.013	78.62	.085
1879	248.36	.268	704.28	.760	210.14	.227	10.22	.011	77.90	.084
1880	290.00	.313	770.40	.832	191.51	.207	11.26	.012	118.88	.128
1881	266.74	.288	762.94	.824	185.96	.201	11.35	.012	116.84	.126
1882	330.41	.357	810.52	.875	162.08	.175	12.81	.014	105.63	.114
1883	367.85	.397	824.99	.891	178.74	.193	13.58	.015	86.36	.093
1884	374.70	.405	852.21	.920	173.79	.188	12.36	.013	86.87	.094
1885	346.27	.374	748.59	.808	161.61	.174	10.21	.011	85.58	.092
1886	295.23	.319	718.18	.775	157.13	.170	8.49	.009	89.99	.097
1887	308.61	.333	768.35	.829	157.73	.170	9.27	.010	77.84	.084
1888	278.76	.301	679.11	.733	158.40	.171	9.12	.010	66.64	.072
1889	290.72	.314	703.46	.759	140.53	.152	9.03	.010	79.41	.086
1890	294.74	.318	739.04	.798	137.75	.149	10.61	.011	55.38	.060
1891	277.22	.299	776.97	.839	145.47	.157	9.26	.010	61.35	.066

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures*—Continued.

ANIMAL AND FISH PRODUCTS—Concluded.

Year.	38. Mucilage.		39. Eggs.		40. Herring.		41. Cured fish.		42. Fish oil.	
	Per 100 kilos.	Per pound.	Per 100.	Per dozen.	Per 150 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 150 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1851	74.58	$0.081	4.29	$0.123	18.60	$0.013	28.80	$0.021	72.01	$0.052
1852	72.60	.078	4.29	.123	25.96	.019	13.20	.084	71.62	.052
1853	73.08	.079	4.29	.123	25.67	.018	33.24	.086	72.24	.053
1854	85.74	.093	4.29	.123	25.03	.018	37.08	.040	76.24	.055
1855	95.76	.103	4.29	.123	25.17	.018	40.44	.044	89.18	.064
1856	88.80	.096	4.29	.123	27.20	.020	37.62	.041	88.96	.064
1857	125.94	.136	4.29	.123	33.62	.024	44.34	.048	89.70	.065
1858	122.34	.132	4.29	.123	27.81	.020	38.70	.042	73.07	.053
1859	106.08	.115	4.29	.123	29.66	.021	43.26	.047	70.28	.051
1860	97.62	.105	4.29	.123	26.78	.019	39.36	.042	67.71	.049
1861	105.78	.114	4.29	.123	29.94	.022	40.98	.044	69.48	.050
1862	95.16	.103	4.83	.138	27.48	.020	52.20	.056	78.68	.057
1863	91.56	.099	4.61	.132	26.12	.019	49.38	.053	94.44	.068
1864	87.30	.094	4.74	.135	26.11	.019	45.00	.049	118.59	.085
1865	89.58	.097	4.20	.120	30.28	.022	53.94	.058	90.80	.065
1866	88.44	.095	4.39	.125	32.31	.023	53.04	.057	79.48	.057
1867	82.26	.089	4.17	.119	30.86	.022	41.94	.045	81.45	.059
1868	87.72	.095	4.38	.125	30.70	.022	43.98	.047	71.14	.051
1869	126.42	.136	4.51	.129	25.36	.018	52.20	.056	72.46	.052
1870	90.84	.108	4.50	.129	25.57	.018	48.84	.053	79.12	.057
1871	107.92	.117	4.95	.141	29.98	.022	50.72	.055	71.16	.051
1872	138.88	.150	5.30	.151	29.03	.021	46.94	.051	74.62	.054
1873	139.60	.151	5.74	.164	31.10	.022	52.88	.057	67.31	.048
1874	126.64	.137	5.55	.159	31.90	.023	51.94	.056	66.04	.048
1875	116.72	.126	5.69	.163	31.36	.023	44.38	.048	66.90	.048
1876	102.52	.111	5.42	.155	33.08	.024	56.12	.061	65.17	.047
1877	91.64	.099	5.25	.150	35.72	.026	52.54	.057	62.97	.045
1878	87.44	.094	5.37	.153	33.15	.024	51.28	.055	57.77	.042
1879	91.02	.098	5.17	.148	37.48	.027	45.90	.050	50.98	.037
1880	96.81	.105	5.42	.155	32.47	.023	39.23	.042	49.37	.036
1881	92.98	.100	5.65	.161	34.10	.025	47.92	.052	61.36	.044
1882	104.30	.113	5.30	.151	35.73	.026	57.50	.062	67.39	.049
1883	103.78	.112	5.33	.152	36.58	.026	62.96	.068	72.64	.052
1884	105.66	.114	5.36	.153	32.27	.023	57.26	.062	60.61	.044
1885	108.02	.117	5.18	.148	29.29	.021	52.78	.057	50.49	.036
1886	95.06	.103	5.20	.149	26.58	.019	46.68	.050	44.13	.032
1887	97.99	.106	4.70	.134	23.28	.017	41.97	.049	41.68	.030
1888	100.09	.108	5.10	.146	25.28	.018	48.55	.052	40.47	.029
1889	92.67	.100	5.00	.143	24.58	.018	47.71	.052	41.71	.030
1890	83.72	.090	5.45	.156	24.96	.018	44.00	.048	35.47	.026
1891	88.51	.096	5.00	.143	29.17	.021	49.88	.054	42.44	.031

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures*—Continued.

SOUTHERN PRODUCTS.

Year.	43. Raisins.		44. Currants.		45. Almonds.		46. Prunes.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*	
1851	35.58	$0.038	32.58	$0.035	125.58	$0.138	37.80	$0.041
1852	34.20	.037	50.58	.055	124.80	.135	32.46	.035
1853	52.80	.057	95.64	.103	131.16	.142	34.08	.037
1854	55.08	.059	27.48	.030	130.56	.141	35.46	.038
1855	51.72	.056	76.98	.083	134.40	.145	46.80	.051
1856	81.24	.088	111.36	.120	135.66	.146	47.94	.052
1857	94.38	.102	89.10	.096	157.68	.170	53.34	.058
1858	62.34	.067	48.36	.052	128.70	.139	40.02	.043
1859	58.86	.064	46.98	.051	111.36	.120	44.40	.048
1860	54.72	.059	41.46	.045	110.22	.119	40.98	.044
1861	52.62	.057	40.08	.043	117.12	.126	43.02	.046
1862	51.00	.055	38.28	.041	107.70	.116	36.48	.039
1863	54.90	.059	38.64	.042	117.30	.127	39.54	.043
1864	49.56	.054	38.28	.041	121.08	.131	42.42	.046
1865	47.88	.052	35.28	.038	131.58	.142	47.40	.051
1866	63.84	.069	37.86	.041	155.70	.168	53.70	.058
1867	60.54	.065	35.16	.038	156.42	.169	51.78	.056
1868	50.64	.055	30.42	.033	149.82	.162	39.36	.042
1869	45.00	.049	32.40	.035	139.92	.151	46.02	.050
1870	58.26	.063	45.36	.049	146.46	.158	37.92	.041
1871	53.68	.058	46.16	.050	134.28	.145	48.96	.053
1872	52.14	.056	45.58	.049	118.24	.128	53.08	.057
1873	57.92	.063	40.62	.044	113.28	.122	66.06	.071
1874	60.38	.065	44.52	.048	123.72	.134	72.92	.079
1875	66.56	.072	44.88	.048	135.86	.147	45.72	.049
1876	55.24	.060	49.82	.054	134.86	.146	49.68	.054
1877	47.72	.052	49.36	.053	151.64	.164	60.12	.065
1878	37.12	.040	34.62	.037	167.76	.181	52.12	.056
1879	47.54	.051	40.82	.044	181.66	.196	50.14	.054
1880	54.83	.059	45.03	.049	163.52	.177	55.28	.060
1881	62.36	.067	42.69	.046	148.50	.160	43.50	.047
1882	58.76	.063	45.88	.050	137.31	.148	46.21	.050
1883	48.61	.052	44.10	.048	158.65	.171	53.93	.058
1884	41.14	.044	35.31	.038	142.72	.154	38.03	.041
1885	51.02	.055	37.43	.040	130.77	.141	36.12	.039
1886	47.25	.051	48.00	.046	130.25	.141	32.30	.035
1887	38.51	.042	44.21	.048	134.78	.146	32.51	.035
1888	37.28	.040	34.56	.037	130.23	.141	30.35	.033
1889	38.44	.041	32.16	.035	147.26	.159	38.84	.042
1890	48.80	.053	36.92	.040	167.82	.181	38.90	.042
1891	46.84	.051	39.94	.043	172.81	.187	37.66	.041

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures*—Continued.

SOUTHERN PRODUCTS—Concluded.

Year.	47. Olive oil.		48. French wine, exclusive of champagne.		49. Champagne.	
	Per 100 kilos.	Per pound.	Per hectoliter.	Per gallon.	Per 100 bottles.	Per bottle.
	Marks.		*Marks.*		*Marks.*	
1851	77.82	$0.084	27.83	$0.251	305.39	$0.727
1852	96.42	.104	28.60	.258	295.45	.703
1853	121.56	.131	37.69	.340	302.39	.720
1854	109.20	.118	55.03	.496	301.26	.717
1855	100.62	.109	77.00	.694	316.54	.753
1856	94.86	.102	65.60	.591	321.78	.766
1857	108.30	.117	79.71	.718	352.97	.840
1858	86.04	.093	54.00	.486	331.59	.789
1859	91.56	.099	42.63	.384	332.45	.791
1860	112.92	.122	59.39	.535	328.47	.782
1861	111.28	.120	62.89	.567	320.23	.762
1862	107.76	.116	56.17	.506	329.97	.785
1863	103.98	.112	52.11	.499	328.17	.781
1864	108.72	.117	41.79	.376	317.55	.756
1865	104.28	.113	47.65	.429	328.20	.781
1866	131.46	.142	39.46	.356	359.51	.856
1867	128.82	.139	46.45	.418	346.14	.824
1868	143.46	.155	51.23	.462	343.86	.818
1869	111.30	.120	49.62	.447	347.19	.826
1870	113.58	.123	42.92	.387	346.05	.824
1871	107.60	.116	48.67	.438	370.06	.881
1872	102.14	.110	57.22	.516	368.51	.877
1873	89.70	.097	64.08	.577	377.48	.898
1874	93.14	.101	75.28	.678	395.74	.942
1875	98.68	.107	59.95	.540	387.24	.922
1876	100.78	.109	56.21	.506	387.30	.923
1877	108.78	.117	70.63	.636	388.81	.925
1878	110.92	.120	77.53	.698	360.56	.858
1879	104.06	.112	75.40	.679	369.40	.879
1880	103.20	.111	97.67	.880	389.11	.926
1881	93.50	.101	91.96	.828	400.12	.953
1882	94.56	.102	79.77	.719	389.06	.928
1883	85.71	.093	83.33	.751	410.84	.977
1884	91.29	.099	66.56	.600	379.33	.903
1885	92.52	.100	70.41	.634	372.62	.887
1886	86.65	.094	73.25	.660	350.70	.835
1887	93.37	.101	73.22	.660	358.12	.852
1888	97.59	.105	78.79	.710	348.21	.829
1889	92.40	.100	81.51	.734	390.16	.929
1890	92.22	.100	87.26	.786	402.81	.959
1891	102.36	.111	83.66	.754	434.41	1.034

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures*—Continued.

TROPICAL PRODUCTS (EXCLUSIVE OF COTTON).

Year.	50. Coffee.		51. Cocoa.		52. Tea.		53. Pepper.		54. Pimento.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1851	82.20	$0.089	58.02	$0.063	300.00	$0.324	63.00	$0.068	97.98	$0.106
1852	82.20	.089	64.20	.069	273.42	.295	71.40	.077	96.78	.104
1853	93.12	.101	67.80	.073	296.40	.320	82.14	.089	107.52	.116
1854	94.32	.102	67.74	.073	288.06	.311	91.98	.099	104.04	.112
1855	92.10	.099	92.10	.099	262.68	.284	84.42	.091	95.58	.103
1856	95.70	.103	102.84	.111	298.80	.323	96.84	.105	88.50	.096
1857	105.54	.114	164.94	.178	334.62	.361	91.38	.099	79.44	.086
1858	91.20	.098	105.78	.114	280.02	.302	80.58	.087	57.90	.063
1859	106.68	.115	106.14	.115	335.16	.362	83.52	.090	58.62	.063
1860	122.22	.132	129.30	.140	377.10	.407	80.22	.087	62.28	.067
1861	123.12	.133	115.50	.125	295.50	.319	75.72	.082	53.76	.058
1862	135.24	.146	113.64	.123	333.96	.361	75.24	.081	55.56	.060
1863	141.06	.152	113.82	.123	350.28	.378	71.88	.078	49.74	.054
1864	138.78	.150	129.24	.140	312.48	.337	69.96	.076	43.86	.047
1865	130.80	.141	119.64	.129	288.84	.312	65.22	.070	47.28	.051
1866	121.80	.131	132.66	.143	277.74	.300	63.18	.068	46.44	.050
1867	109.02	.118	118.20	.128	341.52	.369	64.44	.070	37.80	.041
1868	96.48	.104	97.02	.105	338.04	.365	53.40	.058	42.66	.046
1869	99.12	.107	94.62	.102	309.00	.334	83.52	.090	41.82	.045
1870	100.56	.109	95.34	.103	276.60	.299	95.76	.103	41.82	.045
1871	111.79	.121	99.94	.108	275.06	.297	110.18	.119	39.82	.043
1872	146.24	.158	110.82	.120	294.84	.318	130.32	.141	61.36	.066
1873	177.38	.191	96.14	.104	280.20	.302	143.66	.155	55.64	.060
1874	186.08	.201	98.88	.107	277.42	.299	135.96	.147	61.92	.067
1875	180.68	.195	102.86	.111	286.22	.309	112.52	.121	60.04	.065
1876	166.50	.180	130.90	.141	279.22	.301	86.20	.093	71.26	.077
1877	172.18	.186	137.88	.148	238.16	.257	82.96	.090	78.64	.085
1878	149.42	.161	160.16	.173	223.94	.242	70.70	.076	88.04	.095
1879	136.22	.147	197.42	.213	250.52	.270	72.30	.078	95.84	.103
1880	143.15	.155	131.62	.142	237.17	.256	86.83	.094	85.70	.093
1881	124.46	.134	137.99	.149	216.74	.234	105.77	.114	91.09	.098
1882	100.33	.108	140.68	.152	214.77	.232	110.09	.119	78.07	.084
1883	100.19	.108	158.77	.171	210.18	.227	129.35	.140	62.77	.068
1884	99.83	.108	148.55	.160	212.66	.230	146.33	.158	51.74	.056
1885	91.20	.098	160.14	.150	206.47	.223	152.50	.165	49.19	.053
1886	99.49	.107	137.78	.149	203.47	.220	159.23	.172	46.79	.051
1887	153.95	.166	142.88	.154	178.74	.193	139.35	.150	47.78	.052
1888	135.31	.146	137.01	.148	206.39	.223	160.04	.173	50.04	.054
1889	159.37	.172	127.44	.138	204.36	.221	135.80	.147	60.57	.065
1890	172.07	.186	132.10	.143	198.46	.214	113.32	.122	59.95	.065
1891	163.50	.177	143.81	.155	214.74	.232	87.40	.094	58.89	.064

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures*—Continued.

TROPICAL PRODUCTS (EXCLUSIVE OF COTTON)—Continued.

Year.	55. Cassia.		56. Rice.		57. Sago.		58. Arrack.		59. Rum.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1851	202.02	$0.218	27.18	$0.029	46.02	$0.050	48.18	$0.052	52.38	$0.057
1852	219.00	.236	23.40	.025	40.02	.043	46.98	.051	49.02	.053
1853	232.44	.251	31.68	.034	48.36	.052	56.88	.061	66.18	.071
1854	227.40	.245	28.92	.031	47.22	.051	64.68	.070	70.20	.076
1855	223.86	.242	32.58	.035	53.22	.057	83.52	.090	77.16	.083
1856	204.36	.221	25.20	.027	53.52	.057	81.60	.088	72.18	.078
1857	254.46	.275	24.90	.027	51.66	.056	79.26	.086	88.38	.095
1858	194.40	.210	20.22	.022	39.96	.043	53.34	.058	62.70	.068
1859	163.38	.176	22.08	.024	39.84	.043	45.12	.049	71.58	.077
1860	179.94	.194	24.48	.026	41.22	.044	46.26	.050	74.10	.080
1861	176.34	.190	24.66	.027	41.22	.044	56.22	.061	71.10	.077
1862	170.94	.185	23.34	.025	47.22	.051	48.30	.052	58.38	.063
1863	180.72	.195	22.92	.025	43.08	.047	61.68	.066	60.42	.065
1864	172.08	.186	22.98	.025	45.24	.049	61.38	.066	78.48	.085
1865	171.54	.185	24.78	.027	41.28	.045	56.82	.061	68.04	.073
1866	192.18	.207	22.74	.025	37.74	.041	54.72	.059	70.86	.076
1867	204.60	.221	23.88	.026	38.16	.041	60.96	.066	73.14	.079
1868	228.72	.247	23.58	.025	43.92	.047	67.80	.073	81.36	.088
1869	260.70	.281	19.20	.021	43.56	.047	76.26	.082	89.40	.097
1870	234.18	.253	21.96	.024	37.32	.040	69.90	.075	92.94	.100
1871	213.04	.230	22.36	.024	36.20	.039	60.48	.065	81.78	.088
1872	179.58	.194	22.82	.025	36.34	.039	54.96	.059	89.52	.097
1873	155.94	.168	20.42	.022	37.52	.041	70.74	.076	100.56	.109
1874	132.36	.143	23.02	.025	40.52	.044	88.00	.095	106.56	.115
1875	112.82	.122	19.30	.021	38.32	.041	84.38	.091	95.58	.103
1876	102.50	.111	19.88	.021	36.14	.039	86.86	.094	104.28	.113
1877	99.80	.108	21.22	.023	39.68	.043	87.94	.095	108.82	.117
1878	85.90	.093	22.42	.024	42.04	.045	76.70	.083	103.08	.111
1879	82.78	.089	21.02	.023	40.82	.044	58.20	.063	98.22	.106
1880	75.68	.082	19.82	.021	36.88	.040	66.67	.072	107.49	.116
1881	85.33	.092	19.75	.021	37.87	.041	57.76	.062	111.32	.120
1882	74.57	.081	17.84	.019	33.78	.036	92.27	.100	104.47	.113
1883	68.67	.074	19.25	.021	29.40	.032	48.01	.052	112.04	.121
1884	63.67	.069	18.44	.020	26.73	.029	73.92	.080	87.40	.094
1885	54.40	.059	17.37	.019	28.57	.031	67.38	.073	103.79	.112
1886	51.24	.055	16.37	.018	27.00	.029	76.21	.082	108.84	.117
1887	43.92	.047	16.93	.018	26.91	.029	78.95	.085	108.79	.117
1888	37.81	.041	16.67	.018	31.43	.034	69.37	.075	105.09	.113
1889	44.19	.048	17.53	.019	32.26	.035	70.91	.077	102.96	.111
1890	39.44	.043	17.67	.019	27.25	.029	77.23	.083	117.94	.127
1891	39.18	.042	18.19	.020	26.31	.028	72.64	.078	94.15	.102

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures*—Continued.

TROPICAL PRODUCTS (EXCLUSIVE OF COTTON)—Continued.

Year.	60. Tobacco.		61. Indigo.		62. Cochineal.		63. Logwood.		64. Redwood.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1851	109.38	$0.118	967.98	$1.048	813.00	$0.878	9.42	$0.010	24.78	$0.027
1852	100.38	.108	1,026.00	1.108	793.80	.857	10.02	.011	24.42	.026
1853	113.88	.123	1,103.40	1.191	987.48	1.066	14.28	.015	25.44	.027
1854	113.88	.123	1,064.76	1.149	909.54	.982	15.72	.017	24.96	.027
1855	122.34	.132	1,103.34	1.191	871.14	.940	13.74	.015	26.46	.028
1856	145.26	.157	1,103.40	1.191	851.88	.920	13.98	.015	26.58	.029
1857	155.34	.168	1,316.40	1.421	812.70	.877	12.18	.013	33.90	.037
1858	125.70	.136	1,323.00	1.428	815.76	.881	10.32	.011	23.16	.025
1859	140.94	.152	1,325.10	1.431	786.24	.849	10.98	.012	25.26	.027
1860	144.18	.156	1,406.82	1.519	628.38	.678	12.06	.013	21.78	.024
1861	162.78	.176	1,486.14	1.604	618.96	.668	13.44	.015	18.96	.020
1862	172.44	.186	1,628.64	1.758	545.34	.589	13.86	.015	17.10	.018
1863	136.02	.147	1,291.20	1.394	607.50	.656	12.06	.013	15.90	.017
1864	135.30	.146	1,342.38	1.449	726.60	.784	11.64	.013	16.80	.018
1865	113.82	.123	1,303.08	1.407	753.90	.814	12.36	.013	18.78	.020
1866	104.52	.113	1,460.64	1.577	797.28	.861	13.38	.014	20.40	.022
1867	116.04	.125	1,459.74	1.576	777.96	.840	10.62	.011	21.72	.023
1868	122.04	.132	1,568.70	1.694	875.88	.946	13.38	.014	24.84	.027
1869	139.80	.151	1,734.12	1.872	705.84	.762	15.42	.017	21.36	.023
1870	134.94	.146	1,742.82	1.881	630.12	.680	13.02	.014	16.68	.018
1871	139.30	.150	1,630.88	1.761	622.94	.673	13.20	.014	15.42	.017
1872	164.02	.177	1,617.84	1.747	553.28	.597	14.28	.015	14.02	.015
1873	148.32	.160	1,418.00	1.531	567.14	.612	14.24	.015	14.78	.016
1874	148.22	.160	1,476.18	1.594	524.52	.566	13.18	.014	22.12	.024
1875	142.54	.154	1,451.38	1.567	466.98	.504	16.40	.018	20.18	.022
1876	147.92	.160	1,303.34	1.407	508.84	.549	15.58	.017	16.68	.018
1877	141.78	.153	1,314.30	1.419	569.28	.615	14.82	.016	15.68	.017
1878	134.54	.145	1,259.22	1.359	523.16	.565	13.76	.015	15.86	.017
1879	126.84	.137	1,246.72	1.346	576.52	.622	14.54	.016	16.72	.018
1880	136.45	.147	1,304.74	1.409	598.36	.646	14.66	.016	19.68	.021
1881	130.42	.141	1,393.25	1.504	439.30	.474	13.75	.015	17.09	.019
1882	116.29	.126	1,362.34	1.471	355.89	.384	14.13	.015	15.55	.017
1883	112.26	.121	1,303.29	1.407	265.48	.287	13.35	.014	14.95	.016
1884	123.54	.133	1,223.93	1.321	250.38	.270	13.45	.015	13.31	.014
1885	125.41	.135	1,089.80	1.177	316.40	.342	12.68	.014	11.14	.012
1886	127.51	.138	1,114.41	1.203	303.57	.328	12.50	.013	11.87	.013
1887	115.18	.124	1,079.87	1.166	265.63	.287	12.65	.014	12.09	.013
1888	114.52	.124	1,046.31	1.130	239.30	.258	14.83	.016	12.58	.014
1889	124.35	.134	1,198.68	1.294	232.38	.251	16.29	.018	11.48	.012
1890	130.80	.141	927.63	1.001	230.30	.249	15.79	.017	11.31	.012
1891	122.28	.132	1,069.27	1.154	228.15	.246	13.91	.015	13.97	.015

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures*—Continued.

TROPICAL PRODUCTS (EXCLUSIVE OF COTTON)—Concluded.

Year.	65. Mahogany.		66. Cane.		67. Palm oil.		68. Ivory.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*	
1851	25.20	$0.027	32.82	$0.035	56.82	$0.061	909.78	$0.982
1852	25.20	.027	32.58	.035	58.38	.063	975.18	1.053
1853	23.58	.025	36.06	.039	72.60	.078	1,122.66	1.212
1854	24.00	.026	31.56	.034	95.88	.104	1,218.90	1.316
1855	19.56	.021	33.00	.036	85.74	.093	1,335.84	1.442
1856	23.88	.026	36.00	.039	81.60	.088	1,393.86	1.505
1857	28.02	.030	53.34	.058	89.22	.096	1,648.38	1.780
1858	20.58	.022	49.14	.053	76.32	.082	1,439.10	1.100
1859	23.76	.026	41.40	.045	83.46	.090	1,391.16	1.502
1860	27.12	.029	37.74	.041	80.46	.087	1,372.26	1.481
1861	23.46	.025	36.96	.040	81.12	.088	1,223.16	1.320
1862	19.32	.021	42.24	.046	75.54	.082	1,257.54	1.358
1863	27.72	.030	53.28	.058	64.32	.069	1,240.92	1.340
1864	41.58	.045	58.44	.063	72.36	.078	1,503.24	1.623
1865	27.96	.030	53.52	.058	72.24	.078	1,280.04	1.382
1866	26.40	.029	50.82	.055	77.40	.084	1,411.62	1.524
1867	19.86	.021	41.76	.045	80.16	.087	1,349.76	1.457
1868	15.96	.017	44.04	.048	82.08	.089	1,343.46	1.450
1869	14.88	.016	43.44	.047	83.04	.090	1,351.14	1.459
1870	22.32	.024	44.64	.048	79.08	.085	1,364.16	1.473
1871	20.70	.022	43.00	.046	103.08	.111	1,273.34	1.375
1872	27.18	.029	55.12	.060	79.10	.085	1,510.88	1.631
1873	25.78	.028	59.82	.065	74.24	.080	1,878.20	2.028
1874	22.32	.024	59.22	.064	70.80	.076	1,819.66	1.964
1875	20.22	.022	56.58	.061	70.30	.076	2,021.96	2.183
1876	22.76	.025	50.56	.055	73.96	.080	1,897.82	2.049
1877	21.74	.023	52.60	.057	77.72	.084	1,775.60	1.917
1878	18.88	.020	49.24	.053	77.36	.084	1,852.88	2.000
1879	18.70	.020	47.54	.051	68.66	.074	1,530.30	1.653
1880	20.66	.022	54.73	.059	65.19	.070	1,496.00	1.615
1881	19.91	.021	55.47	.060	63.04	.068	1,615.50	1.744
1882	21.52	.023	56.42	.061	63.64	.069	1,748.77	1.888
1883	22.39	.024	56.09	.061	69.15	.075	1,858.13	2.006
1884	17.40	.019	51.42	.056	65.90	.071	1,920.69	2.074
1885	16.02	.017	53.27	.058	54.54	.059	1,790.43	1.933
1886	16.87	.018	51.21	.055	45.39	.049	1,686.63	1.821
1887	17.47	.019	52.43	.057	42.78	.046	1,657.62	1.790
1888	19.07	.021	46.51	.050	40.13	.043	1,697.86	1.833
1889	21.91	.024	46.97	.051	44.62	.048	1,663.86	1.796
1890	24.40	.026	46.27	.050	46.77	.051	1,839.27	1.986
1891	19.13	.021	47.00	.051	48.19	.052	1,888.66	2.039

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures*—Continued.

MINERALS AND METALS.

Year.	69. Coal.		70. Pig iron.		71. Bar iron.		72. Steel.		73. Lead.	
	Per 1,000 kilos.	Per 2,240 pounds.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1851	13.81	$3.340	5.58	$0.006	16.02	$0.017	49.20	$0.053	36.78	$0.040
1852	13.78	3.332	5.82	.006	16.62	.018	55.38	.060	33.18	.036
1853	17.91	4.331	7.92	.009	22.20	.024	48.12	.052	42.22	.046
1854	20.65	4.994	10.44	.011	25.38	.027	61.92	.067	47.16	.051
1855	19.00	4.595	9.48	.010	22.74	.025	77.64	.084	51.54	.056
1856	18.78	4.541	9.18	.010	24.12	.026	70.02	.076	47.64	.051
1857	17.97	4.346	8.82	.010	24.00	.026	69.00	.074	46.68	.050
1858	15.78	3.816	6.90	.007	20.28	.022	60.60	.065	41.23	.044
1859	15.63	3.780	6.54	.007	20.28	.022	58.14	.063	44.28	.048
1860	15.18	3.671	6.54	.007	19.50	.021	55.20	.060	42.42	.046
1861	15.93	3.852	6.18	.007	18.42	.020	55.86	.060	41.64	.045
1862	16.03	3.876	6.30	.007	18.84	.020	58.02	.063	39.78	.043
1863	15.08	3.647	7.32	.008	19.50	.021	67.56	.073	39.66	.043
1864	16.11	3.896	7.56	.008	22.14	.024	58.62	.063	40.98	.044
1865	16.35	3.954	7.38	.008	21.54	.023	58.50	.063	39.06	.042
1866	16.31	3.944	7.08	.008	21.00	.023	54.90	.059	40.92	.044
1867	16.02	3.874	6.96	.008	20.22	.022	47.52	.051	38.16	.041
1868	15.58	3.768	6.72	.007	18.72	.020	48.00	.052	40.56	.044
1869	15.13	3.659	6.60	.007	18.54	.020	48.54	.052	39.60	.043
1870	15.16	3.666	6.96	.008	19.68	.021	49.20	.053	40.98	.044
1871	15.55	3.760	7.26	.008	21.32	.023	58.36	.063	39.30	.042
1872	21.73	5.255	12.54	.014	27.60	.030	66.32	.072	53.70	.058
1873	27.46	6.640	14.36	.016	34.24	.037	57.12	.062	63.08	.068
1874	22.17	5.361	10.26	.011	22.48	.024	45.12	.049	45.08	.049
1875	18.07	4.370	8.20	.009	23.62	.025	39.62	.043	50.22	.054
1876	16.56	4.005	8.08	.009	20.52	.022	54.42	.059	47.92	.052
1877	15.40	3.724	7.18	.008	18.72	.020	48.20	.052	44.12	.048
1878	13.95	3.373	6.40	.007	17.48	.019	46.06	.050	40.92	.044
1879	13.10	3.168	5.72	.006	15.76	.017	37.66	.041	37.30	.040
1880	13.16	3.182	6.54	.007	16.55	.018	37.77	.041	37.01	.040
1881	12.67	3.064	5.94	.006	16.01	.017	37.15	.040	31.15	.034
1882	12.66	3.061	6.20	.007	17.58	.019	36.88	.040	30.34	.033
1883	12.65	3.059	5.96	.006	16.31	.018	34.87	.038	28.78	.031
1884	12.52	3.028	5.77	.006	15.18	.016	37.08	.040	25.08	.027
1885	12.31	2.977	5.14	.006	14.26	.015	34.41	.037	25.89	.028
1886	11.88	2.873	4.77	.005	13.58	.015	31.33	.034	26.16	.028
1887	11.65	2.817	5.04	.005	13.86	.015	26.11	.028	31.71	.034
1888	11.69	2.827	4.90	.005	14.08	.015	28.60	.031	32.83	.035
1889	13.20	3.192	6.17	.007	16.35	.018	35.71	.039	37.46	.040
1890	15.87	3.838	6.43	.007	17.10	.018	35.34	.038	48.86	.053
1891	16.32	3.947	5.60	.006	16.77	.018	38.33	.041	45.35	.049

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures*—Continued.

MINERALS AND METALS—Continued.

Year.	74. Zinc.		75. Tin.		76. Copper.		77. Quicksilver.		78. Sulphur, raw.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1851	28.98	$0.031	160.98	$0.174	173.58	$0.187	735.60	$0.794	14.82	$0.016
1852	33.42	.036	174.18	.188	183.42	.198	620.22	.670	13.88	.014
1853	42.06	.045	246.84	.266	223.26	.241	499.80	.540	13.02	.014
1854	42.28	.046	237.24	.256	232.50	.251	436.86	.472	10.62	.011
1855	45.17	.049	231.30	.250	232.80	.251	400.32	.432	11.10	.012
1856	49.92	.054	266.22	.287	240.24	.259	387.12	.418	10.56	.011
1857	56.52	.061	297.84	.322	228.54	.247	417.54	.451	18.54	.020
1858	46.80	.051	244.38	.264	205.50	.222	408.00	.440	16.44	.018
1859	41.76	.045	273.48	.295	193.68	.209	386.70	.417	17.04	.018
1860	39.78	.043	276.78	.299	204.18	.220	443.34	.479	20.40	.022
1861	36.00	.039	245.16	.265	192.00	.207	435.48	.470	15.60	.017
1862	35.76	.039	238.62	.258	189.12	.204	444.06	.479	13.80	.015
1863	35.76	.039	259.44	.280	178.62	.193	434.88	.469	12.36	.013
1864	43.14	.047	222.96	.241	194.88	.210	513.36	.554	14.70	.016
1865	41.94	.045	198.48	.214	178.20	.192	447.30	.483	13.50	.015
1866	43.86	.047	179.88	.194	187.02	.202	422.82	.456	13.62	.015
1867	43.08	.047	186.06	.201	167.82	.181	447.66	.483	12.72	.014
1868	40.20	.043	192.90	.208	153.72	.166	417.06	.450	12.90	.014
1869	41.40	.045	241.74	.261	155.52	.168	447.54	.483	14.58	.016
1870	38.76	.042	257.88	.278	151.14	.163	494.70	.534	15.00	.016
1871	35.90	.039	276.46	.298	155.58	.168	603.42	.651	13.42	.014
1872	45.90	.050	311.42	.336	190.02	.205	720.18	.777	12.78	.014
1873	55.64	.060	297.54	.321	191.50	.207	846.68	.914	11.56	.012
1874	46.08	.050	212.78	.230	177.76	.192	1,303.30	1.407	13.80	.015
1875	48.14	.052	198.64	.214	183.12	.198	786.50	.849	13.78	.015
1876	50.90	.055	184.50	.199	181.60	.196	698.98	.755	12.00	.013
1877	44.74	.048	163.38	.176	171.14	.185	543.30	.587	11.86	.013
1878	45.70	.049	146.32	.158	151.62	.164	450.14	.486	12.32	.013
1879	34.24	.037	146.90	.159	135.84	.147	406.20	.439	9.42	.010
1880	39.85	.043	178.42	.193	131.82	.142	434.09	.469	11.83	.013
1881	36.32	.039	187.84	.203	135.15	.146	413.43	.446	12.45	.013
1882	36.38	.039	199.87	.216	143.23	.155	403.65	.436	13.35	.014
1883	36.43	.039	198.16	.214	136.13	.147	354.63	.383	11.77	.013
1884	34.25	.037	179.75	.194	124.84	.135	374.47	.404	11.24	.012
1885	25.14	.027	168.53	.182	110.92	.120	375.19	.405	13.70	.015
1886	27.28	.029	169.68	.183	103.32	.112	368.80	.398	10.69	.012
1887	28.06	.030	185.28	.200	96.31	.104	458.56	.495	9.46	.010
1888	29.85	.032	209.83	.227	134.52	.145	463.52	.500	9.89	.011
1889	32.37	.035	180.31	.195	110.17	.119	523.23	.565	10.08	.011
1890	40.58	.044	177.35	.191	110.14	.119	596.32	.644	10.77	.012
1891	45.41	.049	175.13	.189	115.61	.125	483.31	.522	11.91	.013

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures*—Continued.

MINERALS AND METALS—Concluded.

Year.	79. Saltpetre, raw, Chile.		80. Salt.		81. Lime.		82. Cement.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*	
1851	27.60	$0.030	4.02	$0.004	3.00	$0.003	5.58	$0.006
1852	29.40	.022	3.00	.003	3.00	.003	5.82	.006
1853	34.02	.037	3.48	.004	2.82	.003	5.40	.006
1854	33.84	.037	3.18	.003	3.00	.003	5.82	.006
1855	45.48	.049	3.18	.003	3.00	.003	5.64	.006
1856	30.84	.033	3.78	.004	3.00	.003	5.64	.006
1857	35.40	.038	4.08	.004	3.00	.003	5.70	.006
1858	29.82	.032	3.78	.004	3.00	.003	5.46	.006
1859	27.54	.030	3.90	.004	3.36	.004	5.16	.006
1860	25.68	.028	3.60	.004	3.24	.003	5.28	.006
1861	23.76	.026	3.72	.004	3.18	.003	5.34	.006
1862	27.72	.030	3.66	.004	3.12	.003	5.16	.006
1863	26.76	.029	3.24	.003	3.30	.004	5.10	.006
1864	29.28	.032	2.16	.002	3.12	.003	4.86	.005
1865	24.96	.027	1.98	.002	3.00	.003	4.92	.005
1866	23.10	.025	1.74	.002	2.76	.003	4.80	.005
1867	21.72	.023	1.74	.002	2.70	.003	4.98	.005
1868	24.18	.026	2.10	.002	2.52	.003	4.44	.005
1869	30.36	.033	1.92	.002	2.58	.003	4.32	.005
1870	31.38	.034	2.40	.003	2.82	.003	4.38	.005
1871	31.08	.034	2.94	.003	2.40	.003	4.34	.005
1872	29.68	.032	2.74	.003	2.40	.003	4.68	.005
1873	28.96	.031	3.64	.004	5.04	.005	6.26	.007
1874	23.96	.026	3.64	.004	3.12	.003	5.54	.006
1875	23.14	.025	2.82	.003	3.32	.004	5.14	.006
1876	23.12	.025	3.16	.003	3.58	.004	5.04	.005
1877	27.76	.030	2.82	.003	3.46	.004	4.98	.005
1878	29.76	.032	2.52	.003	3.58	.004	4.72	.005
1879	28.28	.031	2.26	.002	3.40	.004	4.74	.005
1880	30.48	.033	2.27	.002	2.82	.003	4.47	.005
1881	28.70	.031	2.10	.002	2.68	.003	4.43	.005
1882	26.07	.028	2.27	.002	3.12	.003	4.25	.005
1883	22.37	.024	2.09	.002	3.02	.003	4.48	.005
1884	19.25	.021	1.97	.002	3.04	.003	4.53	.005
1885	20.48	.022	1.74	.002	2.52	.003	4.19	.005
1886	19.48	.021	1.62	.002	2.31	.002	4.07	.004
1887	19.30	.021	1.96	.002	2.44	.003	3.98	.004
1888	19.02	.021	2.02	.002	2.30	.002	3.64	.004
1889	18.37	.020	1.76	.002	2.06	.002	4.07	.004
1890	16.02	.017	1.18	.001	2.06	.002	4.01	.004
1891	16.66	.018	1.57	.002	2.26	.002	4.05	.004

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures*—Continued.

TEXTILE MATERIALS.

Year.	83. Cotton.		84. Wool.		85. Flax.		86. Hemp.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*	
1851	106.38	$0.115	383.58	$0.414	118.20	$0.128	75.60	$0.082
1852	100.38	.108	366.60	.396	116.22	.125	76.02	.082
1853	110.16	.119	357.00	.385	79.68	.086	73.02	.079
1854	90.60	.098	377.64	.408	74.64	.081	101.22	.109
1855	90.84	.098	343.68	.371	73.92	.080	78.36	.085
1856	108.84	.117	394.38	.426	85.74	.093	68.58	.074
1857	126.36	.136	435.72	.470	106.02	.114	70.38	.076
1858	116.28	.126	407.28	.440	112.20	.121	60.78	.066
1859	109.68	.118	416.40	.450	110.46	.119	60.42	.065
1860	102.36	.111	432.30	.467	134.64	.145	64.92	.070
1861	128.40	.139	387.66	.419	139.80	.151	64.08	.069
1862	236.64	.255	417.00	.450	142.26	.154	66.18	.071
1863	374.16	.404	399.24	.431	157.80	.170	77.94	.084
1864	436.02	.471	334.20	.361	135.30	.146	75.42	.081
1865	234.12	.253	356.88	.385	105.60	.114	56.64	.061
1866	262.14	.283	331.14	.357	169.32	.183	68.70	.074
1867	202.08	.218	296.88	.321	168.30	.182	66.96	.072
1868	155.52	.168	312.78	.338	167.82	.181	75.90	.082
1869	192.48	.208	287.34	.310	162.54	.175	78.42	.085
1870	172.02	.186	304.44	.329	151.56	.164	70.08	.076
1871	147.56	.159	328.02	.354	131.62	.142	80.70	.087
1872	167.22	.181	387.38	.418	128.44	.139	77.28	.083
1873	153.64	.166	340.68	.368	114.32	.123	72.68	.078
1874	148.10	.160	301.22	.325	115.30	.124	79.40	.086
1875	131.38	.142	313.90	.339	125.88	.136	72.50	.078
1876	111.08	.120	270.42	.292	119.02	.128	68.42	.074
1877	111.50	.120	273.76	.296	142.66	.154	73.60	.079
1878	111.24	.120	302.28	.326	122.52	.132	62.66	.068
1879	113.34	.122	287.08	.310	145.52	.157	56.66	.061
1880	122.40	.132	284.75	.307	90.37	.098	57.09	.062
1881	110.22	.119	288.48	.311	120.47	.130	60.16	.065
1882	111.78	.121	260.59	.281	111.90	.121	59.72	.064
1883	101.00	.109	245.47	.265	121.51	.131	60.85	.066
1884	102.91	.111	200.72	.217	138.86	.150	64.99	.070
1885	102.42	.111	202.48	.219	148.20	.160	62.52	.067
1886	96.46	.104	187.35	.202	132.34	.143	62.66	.068
1887	92.30	.100	184.67	.199	96.92	.105	57.40	.062
1888	102.17	.110	152.88	.165	89.99	.097	55.40	.060
1889	102.59	.111	165.88	.179	90.00	.097	62.39	.067
1890	99.73	.108	174.70	.189	88.55	.096	57.10	.062
1891	97.24	.105	170.68	.184	74.56	.080	57.11	.062

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures*—Continued.

TEXTILE MATERIALS—Concluded.

Year.	87. Silk.		88. Cordage.		89. Rags.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*	
1851	3,813.78	$4.117	67.02	$0.072	29.22	$0.032
1852	3,678.18	3.971	73.20	.079	32.22	.035
1853	3,930.00	4.243	67.14	.072	36.66	.040
1854	3,271.92	3.532	102.00	.110	40.32	.044
1855	3,136.15	3.386	108.60	.117	33.78	.036
1856	2,884.68	3.114	77.40	.084	34.14	.037
1857	3,815.04	4.119	78.84	.085	36.48	.039
1858	3,408.00	3.679	70.62	.076	32.52	.035
1859	3,758.04	4.057	71.16	.077	33.60	.036
1860	3,771.60	4.072	70.98	.077	33.18	.036
1861	3,522.42	3.803	70.56	.076	35.22	.038
1862	2,918.06	3.145	79.92	.086	30.48	.033
1863	3,594.36	3.880	85.56	.092	35.04	.038
1864	3,666.12	3.958	77.88	.084	40.20	.043
1865	3,957.30	4.272	72.42	.078	33.54	.036
1866	4,137.84	4.467	74.28	.080	36.72	.040
1867	4,942.14	5.335	79.80	.086	38.28	.041
1868	5,148.72	5.558	84.78	.092	35.34	.038
1869	4,968.78	5.364	82.44	.089	37.68	.041
1870	4,540.08	4.901	79.44	.086	37.38	.040
1871	4,537.74	4.899	82.58	.089	34.74	.037
1872	5,009.88	5.408	84.36	.091	29.82	.032
1873	5,012.82	5.412	93.16	.101	32.92	.036
1874	3,784.24	4.085	89.42	.097	31.62	.034
1875	3,335.02	3.600	90.14	.097	35.02	.038
1876	3,943.88	4.258	85.14	.092	33.10	.036
1877	4,214.98	4.550	79.96	.086	29.18	.032
1878	3,415.48	3.687	81.46	.088	30.76	.033
1879	2,890.84	3.121	69.46	.075	28.84	.031
1880	3,360.21	3.628	77.10	.083	32.30	.035
1881	3,189.04	3.443	74.32	.080	32.62	.035
1882	3,026.54	3.267	74.32	.080	29.82	.032
1883	3,326.14	3.591	75.73	.082	29.23	.032
1884	3,092.54	3.339	78.03	.084	28.23	.030
1885	2,902.70	3.134	77.65	.084	25.51	.028
1886	2,686.13	2.900	74.58	.081	23.55	.025
1887	2,616.79	2.825	74.65	.081	21.23	.023
1888	2,876.19	3.105	79.58	.086	21.50	.023
1889	3,637.54	3.927	82.23	.089	24.75	.027
1890	2,283.74	2.465	79.23	.086	24.40	.026
1891	2,290.52	2.473	78.69	.085	26.89	.029

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures*—Continued.

MISCELLANEOUS ARTICLES.

Year.	90. Guano.		91. India rubber.		92. Gutta-percha.		93. Rosin.		94. Potash, prussiate and chromate of.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1851	21.00	$0.023	389.58	$0.421	172.98	$0.187	8.82	$0.010	139.70	$0.151
1852	19.02	.021	283.20	.306	176.58	.191	7.80	.008	138.15	.149
1853	21.24	.023	392.04	.423	215.34	.232	10.20	.011	150.67	.163
1854	23.88	.026	393.12	.424	244.38	.264	10.86	.012	145.98	.158
1855	23.40	.025	272.28	.294	170.64	.184	9.48	.010	149.29	.161
1856	23.34	.025	228.60	.247	173.04	.187	9.06	.010	168.38	.182
1857	26.52	.029	228.12	.246	202.02	.218	10.56	.011	173.47	.187
1858	24.54	.026	222.42	.240	169.02	.182	9.66	.010	166.28	.180
1859	21.72	.023	407.34	.440	305.70	.330	10.02	.011	204.97	.221
1860	24.30	.026	452.70	.489	304.32	.329	9.54	.010	190.95	.206
1861	22.86	.025	295.26	.319	273.60	.295	15.18	.016	166.15	.179
1862	25.74	.028	337.02	.364	284.52	.307	41.76	.045	143.22	.155
1863	24.12	.026	314.94	.340	363.90	.393	47.16	.051	149.24	.161
1864	23.46	.025	268.32	.290	438.96	.474	52.62	.057	135.93	.147
1865	24.36	.026	274.14	.296	336.48	.363	26.04	.028	119.40	.129
1866	23.46	.025	392.76	.424	250.26	.270	17.76	.019	120.95	.131
1867	20.28	.022	331.92	.358	292.92	.316	17.46	.019	107.40	.116
1868	20.70	.022	350.34	.378	274.44	.296	12.84	.014	111.14	.120
1869	24.12	.026	267.84	.289	197.28	.213	10.98	.012	107.42	.116
1870	21.54	.023	348.06	.376	366.18	.395	11.34	.012	106.14	.115
1871	23.44	.025	385.64	.416	310.42	.335	17.26	.019	141.28	.153
1872	24.60	.027	438.54	.473	301.12	.325	19.20	.021	194.34	.210
1873	14.42	.016	406.50	.439	310.92	.336	16.52	.018	181.69	.196
1874	14.26	.015	332.12	.358	296.92	.321	13.54	.015	136.47	.147
1875	12.94	.014	318.14	.343	225.50	.243	11.36	.012	118.82	.128
1876	15.32	.017	324.48	.350	345.22	.373	11.46	.012	99.22	.107
1877	12.74	.014	296.44	.320	404.26	.436	11.62	.013	95.05	.103
1878	14.58	.016	309.70	.334	412.52	.445	10.28	.011	88.81	.096
1879	11.34	.012	301.50	.390	335.52	.362	9.46	.010	116.36	.126
1880	12.03	.013	500.51	.540	289.66	.313	10.80	.012	118.33	.128
1881	11.88	.013	425.76	.460	314.35	.339	12.26	.013	120.04	.130
1882	15.94	.017	455.34	.492	290.86	.314	12.10	.013	129.68	.140
1883	14.04	.015	485.10	.524	274.90	.297	10.51	.011	111.34	.120
1884	11.99	.013	363.29	.392	288.35	.311	8.66	.009	74.52	.080
1885	11.07	.012	368.20	.397	261.60	.282	8.06	.009	99.95	.108
1886	9.89	.011	440.92	.476	247.16	.267	8.00	.009	92.53	.095
1887	9.40	.010	452.61	.489	239.40	.258	7.59	.008	98.26	.106
1888	7.96	.009	381.90	.412	234.38	.253	7.45	.008	91.63	.099
1889	10.13	.011	371.62	.401	350.59	.378	9.03	.010	93.95	.101
1890	10.42	.011	444.11	.479	364.64	.394	9.62	.010	101.74	.110
1891	9.20	.010	376.31	.406	312.81	.338	10.09	.011	99.50	.107

TABLE 66.—*Wholesale prices of commodities in Hamburg, Germany, from 1851 to 1891, with equivalents in United States money and measures*—Concluded.

MISCELLANEOUS ARTICLES—Concluded.

Year.	95. Pitch.		96. Potash, carbonate of.		97. Soda.		98. Tallow candles.		99. Tar.		100. Wax.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1851	22.80	$0.025	51.78	$0.056	18.42	$0.020	192.42	$0.208	13.62	$0.015	306.18	$0.331
1852	21.60	.024	45.42	.049	17.62	.019	184.02	.199	12.42	.013	300.00	.324
1853	18.72	.020	49.02	.053	18.08	.020	208.20	.225	12.00	.013	313.44	.338
1854	23.64	.026	63.48	.069	17.30	.019	237.18	.256	20.64	.022	304.98	.329
1855	22.50	.024	66.96	.072	16.67	.018	240.78	.260	20.22	.022	298.80	.323
1856	17.22	.019	67.68	.073	18.15	.020	213.00	.230	12.24	.013	307.44	.332
1857	16.32	.018	75.96	.082	22.30	.024	217.86	.235	12.18	.013	309.00	.334
1858	16.26	.018	52.74	.057	21.49	.023	205.14	.221	11.76	.013	321.96	.348
1859	18.96	.020	55.26	.060	21.12	.023	212.10	.229	13.50	.015	289.32	.312
1860	16.62	.018	48.48	.052	18.58	.020	211.08	.228	16.62	.018	327.48	.354
1861	22.98	.025	54.42	.059	16.75	.018	203.10	.219	22.08	.024	292.92	.316
1862	37.50	.040	55.80	.060	15.22	.016	190.56	.206	24.06	.026	266.22	.287
1863	38.34	.041	57.06	.062	14.75	.016	167.22	.181	18.18	.020	283.26	.306
1864	31.86	.034	52.80	.057	14.77	.016	145.38	.157	14.70	.016	342.90	.370
1865	20.10	.022	52.38	.057	15.57	.017	144.48	.156	12.66	.014	311.70	.336
1866	19.50	.021	45.12	.049	19.46	.021	154.20	.166	11.22	.012	295.62	.319
1867	16.92	.018	45.18	.049	18.15	.020	156.00	.168	11.70	.013	325.80	.352
1868	15.60	.017	45.60	.049	14.80	.016	157.62	.170	12.60	.014	305.64	.330
1869	20.22	.022	46.86	.051	14.10	.015	154.20	.166	14.10	.015	324.30	.350
1870	24.36	.026	52.56	.057	13.32	.014	148.92	.161	15.90	.017	308.22	.333
1871	17.54	.019	56.02	.060	16.32	.018	149.12	.161	16.42	.018	316.66	.342
1872	20.94	.023	61.86	.067	25.08	.027	145.02	.157	18.90	.020	204.14	.220
1873	21.96	.024	66.22	.071	19.57	.021	148.98	.161	20.34	.022	190.80	.206
1874	24.70	.027	55.78	.060	17.08	.018	148.94	.161	20.32	.022	279.48	.302
1875	21.96	.024	52.10	.056	15.16	.016	138.68	.150	18.04	.019	251.60	.272
1876	18.06	.019	50.52	.055	15.96	.017	138.24	.149	17.14	.019	241.70	.261
1877	18.06	.019	47.46	.051	14.52	.016	138.98	.150	16.66	.018	207.74	.224
1878	17.62	.019	43.64	.047	12.65	.014	132.16	.143	14.46	.016	233.36	.252
1879	14.88	.016	36.16	.039	12.09	.013	126.14	.136	14.62	.016	198.74	.215
1880	16.62	.018	36.39	.039	13.10	.014	114.13	.123	14.63	.016	187.88	.203
1881	15.78	.017	39.10	.042	12.05	.013	109.97	.119	14.60	.016	194.86	.210
1882	19.53	.021	42.82	.046	11.89	.013	110.42	.119	15.18	.016	168.46	.182
1883	17.88	.019	40.71	.044	11.06	.012	118.60	.128	15.16	.016	191.65	.207
1884	17.81	.019	38.49	.042	10.42	.011	119.84	.129	12.73	.014	190.92	.206
1885	11.38	.012	34.59	.037	8.85	.010	116.23	.125	17.73	.019	164.93	.178
1886	12.13	.013	36.22	.039	7.77	.008	100.54	.109	14.38	.016	143.09	.154
1887	11.38	.012	35.82	.039	7.85	.008	89.89	.097	13.51	.015	152.82	.165
1888	11.18	.012	34.20	.037	9.09	.010	84.91	.092	14.60	.016	156.39	.169
1889	17.69	.019	27.25	.029	9.06	.010	88.02	.095	18.03	.019	135.19	.146
1890	17.81	.019	30.34	.033	9.96	.011	92.42	.100	17.78	.019	136.26	.152
1891	16.08	.017	35.16	.038	10.47	.011	90.17	.097	15.41	.017	134.74	.145

TABLE 67.—*Export prices of commodities in England from 1851 to 1891.*

[Supplementary to Hamburg prices.]

Year.	1. Yarn, cotton.		2. Piece goods, plain.		3. Piece goods, printed.		4. Stockings and socks.		5. Thread, sewing.	
	Per pound.	Per pound.	Per yard.	Per yard.	Per yard.	Per yard.	Per dozen pairs.	Per dozen pairs.	Per pound.	Per pound.
	d.		*d.*		*d.*		*s.*		*s.*	
1851	11.06	$0.224	2.92	$0.059	4.26	$0.086	7.80	$1.898	2.07	$0.504
1852	10.98	.223	2.91	.059	4.22	.086	7.14	1.737	2.20	.535
1853	11.22	.228	3.08	.062	4.31	.087	6.82	1.660	2.27	.552
1854	10.92	.222	2.85	.058	4.20	.085	6.35	1.545	2.27	.552
1855	10.44	.212	2.79	.057	4.01	.081	6.66	1.621	2.29	.557
1856	10.62	.215	2.88	.059	4.06	.082	6.11	1.487	2.17	.528
1857	11.81	.239	2.99	.061	4.18	.085	5.24	1.275	2.25	.548
1858	11.49	.233	2.90	.059	4.07	.083	6.43	1.565	2.33	.567
1859	11.81	.239	3.07	.062	4.23	.086	5.75	1.399	2.45	.596
1860	12.00	.243	3.09	.063	4.21	.085	5.93	1.443	2.35	.572
1861	12.54	.254	3.02	.061	4.11	.083	5.65	1.375	2.25	.548
1862	15.97	.324	3.66	.074	4.57	.093	6.36	1.548	2.71	.659
1863	26.01	.528	4.97	.101	5.71	.116	6.98	1.698	3.37	.820
1864	28.80	.584	5.79	.117	6.32	.128	8.15	1.983	3.58	.871
1865	23.98	.486	5.05	.102	5.81	.118	7.84	1.908	3.26	.793
1866	23.66	.480	5.09	.103	5.91	.120	8.32	2.025	3.36	.818
1867	21.11	.428	4.13	.084	5.28	.107	7.06	1.718	3.43	.835
1868	20.27	.411	3.67	.074	4.83	.098	6.63	1.613	3.37	.820
1869	20.04	.406	3.79	.077	4.91	.100	6.82	1.660	3.36	.818
1870	18.92	.384	3.55	.072	4.75	.096	6.79	1.652	3.32	.808
1871	18.66	.378	3.33	.068	4.71	.096	6.50	1.582	3.26	.793
1872	18.87	.383	3.51	.071	4.92	.100	7.08	1.723	3.48	.847
1873	17.76	.360	3.45	.070	4.78	.097	7.40	1.801	3.54	.861
1874	15.79	.320	3.22	.065	4.69	.095	7.09	1.725	3.53	.859
1875	14.66	.297	3.13	.063	4.77	.097	6.72	1.635	3.66	.891
1876	13.19	.268	2.83	.057	4.48	.091	6.59	1.604	3.66	.891
1877	12.85	.261	2.83	.057	4.31	.087	6.23	1.516	3.22	.784
1878	12.47	.253	2.76	.056	4.18	.085	6.48	1.577	3.15	.767
1879	12.33	.250	2.65	.054	3.91	.079	6.66	1.621	3.13	.762
1880	13.25	.269	2.73	.055	3.79	.077	6.55	1.594	3.17	.771
1881	12.39	.251	2.65	.054	3.68	.075	5.82	1.416	2.99	.728
1882	12.96	.263	2.71	.055	3.73	.076	6.21	1.511	3.10	.754
1883	12.25	.248	2.61	.053	3.62	.073	6.28	1.528	3.27	.796
1884	12.24	.248	2.47	.050	3.60	.073	6.25	1.521	3.37	.820
1885	11.58	.235	2.33	.047	3.47	.070	6.00	1.460	3.15	.767
1886	10.84	.220	2.21	.045	3.18	.065	5.53	1.346	2.99	.728
1887	10.81	.219	2.27	.046	3.17	.064	5.13	1.248	2.92	.711
1888	10.94	.222	2.27	.046	3.08	.062	5.22	1.270	2.93	.713
1889	11.13	.226	2.24	.046	2.97	.060	5.47	1.331	3.11	.757
1890	11.47	.233	2.30	.047	3.08	.062	5.46	1.329	3.31	.805
1891	10.47	.212	2.31	.047	2.88	.059	5.22	1.270	3.60	.876

TABLE 67.—*Export prices of commodities in England from 1851 to 1891*—Continued.

[Supplementary to Hamburg prices.]

Year.	6. Glass, common bottles.		7. Yarn, linen.		8. Linen, plain.		9. Linen sail cloth and sails.		10. Yarns, woollen and worsted.	
	Per 112 pounds.	Per pound.	Per pound.	Per pound.	Per yard.	Per yard.	Per yard.	Per yard.	Per pound.	Per pound.
	s.		*d.*		*d.*		*d.*		*d.*	
1851	10.60	$0.023	12.12	$0.246	7.02	$0.142	8.94	$0.181	24.29	$0.493
1852	10.46	.023	11.44	.232	6.92	.140	8.97	.182	24.14	.490
1853	10.85	.024	12.11	.246	7.65	.155	10.85	.220	25.04	.508
1854	11.42	.025	12.81	.260	7.91	.160	12.24	.248	23.76	.482
1855	10.89	.023	12.32	.250	7.59	.154	10.85	.220	22.90	.464
1856	11.07	.024	13.05	.265	7.17	.145	10.95	.222	24.69	.501
1857	11.07	.024	13.71	.278	7.35	.149	10.46	.212	27.69	.562
1858	11.11	.024	13.08	.265	7.34	.149	10.45	.212	28.58	.580
1859	10.54	.023	14.73	.299	7.27	.147	11.56	.234	31.30	.635
1860	10.30	.022	13.85	.281	7.22	.146	10.98	.223	32.46	.658
1861	10.16	.022	13.91	.282	7.16	.145	11.89	.241	30.13	.611
1862	10.08	.022	13.65	.277	6.84	.139	12.28	.249	32.47	.658
1863	10.18	.022	15.80	.320	7.55	.153	12.58	.255	36.92	.749
1864	10.01	.022	17.90	.363	8.39	.170	13.67	.277	40.30	.817
1865	9.97	.022	16.54	.335	8.06	.163	12.73	.258	40.31	.817
1866	10.13	.022	16.95	.344	8.23	.167	12.75	.259	41.06	.833
1867	9.98	.022	17.29	.351	7.79	.158	12.88	.261	37.28	.756
1868	9.93	.022	16.91	.343	7.50	.152	13.39	.272	34.78	.705
1869	9.91	.022	16.19	.328	7.06	.143	14.20	.288	35.74	.725
1870	9.99	.022	14.42	.292	7.15	.145	12.65	.257	33.73	.684
1871	9.71	.021	14.69	.298	7.39	.150	12.94	.262	33.49	.679
1872	9.81	.021	16.40	.333	7.43	.151	14.29	.290	36.91	.749
1873	10.18	.022	16.51	.335	7.62	.155	13.97	.283	37.26	.756
1874	10.41	.023	15.17	.308	7.80	.158	14.41	.292	38.14	.773
1875	11.08	.024	15.95	.323	7.59	.154	14.36	.291	38.58	.782
1876	11.15	.024	15.62	.317	7.14	.145	14.37	.291	34.36	.697
1877	10.99	.024	16.13	.327	6.93	.141	13.71	.278	32.13	.651
1878	10.71	.023	15.76	.320	7.20	.146	12.96	.263	30.07	.610
1879	10.20	.022	14.82	.301	7.06	.144	11.69	.237	28.71	.582
1880	10.10	.022	14.25	.289	7.38	.150	12.15	.246	30.33	.615
1881	9.92	.022	13.91	.282	7.03	.143	12.01	.244	28.04	.568
1882	9.55	.021	13.71	.278	6.89	.140	12.44	.252	25.63	.520
1883	9.27	.020	14.36	.291	6.95	.141	11.73	.238	23.41	.475
1884	9.30	.020	13.95	.283	6.62	.134	10.95	.222	23.78	.482
1885	9.57	.021	14.26	.289	6.35	.129	10.83	.220	24.19	.491
1886	9.49	.021	14.12	.286	5.98	.121	11.09	.225	23.19	.470
1887	9.45	.021	13.77	.279	6.07	.123	11.01	.223	22.73	.461
1888	9.38	.020	14.48	.294	5.57	.113	10.51	.213	22.81	.463
1889	9.46	.021	14.54	.295	5.57	.113	11.06	.224	22.97	.466
1890	9.27	.020	13.58	.275	5.43	.110	10.58	.215	23.87	.484
1891	9.39	.020	14.53	.295	5.43	.110	10.71	.217	22.64	.459

TABLE 67.—*Export prices of commodities in England from 1851 to 1891*—Concluded.

[Supplementary to Hamburg prices.]

Year.	11. Cloths, etc.		12. Flannels, etc.		13. Worsted stuffs.		14. Carpets, etc.	
	Per yard.	Per yard.	Per yard.	Per yard.	Per yard.	Per yard.	Per yard.	Per yard.
	d.		*d.*		*d.*		*d.*	
1851	24.82	$0.503	14.15	$0.287	9.83	$0.199	35.28	$0.715
1852	24.56	.498	13.91	.282	9.26	.188	32.56	.660
1853	26.10	.529	14.63	.297	10.52	.213	29.60	.600
1854	24.43	.495	13.18	.267	10.06	.204	29.03	.589
1855	26.30	.533	15.25	.309	9.50	.193	30.52	.619
1856	24.34	.494	14.76	.299	10.07	.204	32.22	.653
1857	24.34	.494	16.01	.325	10.28	.209	33.06	.670
1858	25.89	.525	15.21	.308	10.42	.211	28.00	.568
1859	29.09	.590	15.35	.311	11.02	.223	30.88	.626
1860	30.12	.611	15.74	.319	11.32	.230	31.55	.640
1861	29.81	.605	17.80	.361	11.99	.243	30.01	.609
1862	30.36	.616	18.64	.378	12.93	.263	29.95	.607
1863	34.28	.695	19.59	.397	12.07	.245	31.09	.630
1864	36.74	.745	19.92	.404	13.84	.281	34.50	.700
1865	37.70	.765	19.55	.396	13.76	.279	36.00	.730
1866	39.15	.794	19.24	.390	14.04	.285	38.45	.780
1867	40.99	.831	18.54	.376	14.54	.295	39.62	.803
1868	36.66	.743	18.17	.369	13.99	.284	35.59	.722
1869	36.37	.738	17.68	.359	14.52	.295	36.45	.739
1870	35.17	.713	17.28	.350	14.03	.285	35.67	.723
1871	37.52	.761	17.55	.356	14.02	.284	36.10	.732
1872	41.19	.835	17.65	.358	14.54	.295	38.93	.790
1873	41.00	.831	18.10	.367	12.11	.246	38.64	.784
1874	39.53	.802	19.76	.401	10.93	.222	38.60	.783
1875	39.09	.793	18.47	.375	10.64	.216	37.00	.750
1876	38.25	.776	17.52	.355	9.90	.201	34.75	.705
1877	35.72	.724	17.58	.357	9.52	.193	31.52	.639
1878	34.53	.700	16.86	.342	9.28	.188	30.44	.617
1879	31.89	.647	16.59	.336	8.90	.181	28.83	.585
1880	32.34	.656	16.45	.334	9.15	.186	29.16	.591
1881	32.55	.660	15.18	.308	9.04	.183	28.78	.584
1882	34.18	.693	15.13	.307	9.65	.196	28.14	.571
1883	38.30	.777	14.82	.301	9.94	.202	28.24	.573
1884	41.42	.840	13.98	.284	9.64	.196	26.16	.531
1885	40.23	.816	13.08	.265	9.35	.190	25.74	.523
1886	39.56	.802	12.49	.253	9.25	.188	25.41	.515
1887	40.04	.812	12.27	.249	8.87	.180	24.27	.492
1888	39.56	.802	11.83	.240	8.63	.175	24.76	.502
1889	40.53	.822	11.65	.236	8.80	.178	25.24	.512
1890	31.76	.644	12.34	.250	8.69	.176	24.92	.505
1891	30.97	.628	12.42	.252	8.67	.176	24.84	.504

TABLE 68.—*Relative prices of commodities in Hamburg—Calculations of Dr. Soetbeer.*

[1847 to 1850=100.]

Year.	1. Wheat.	2. Wheat flour.	3. Rye.	4. Rye flour.	5. Oats.	6. Barley.	7. Malt.	8. Buck-wheat.	9. Pease.	10. Beans.	11. Potatoes.a
1851	85.49	86.51	112.75	111.92	129.03	83.68	70.54	79.44	89.37	125.14	82.16
1852	89.51	94.81	117.65	139.19	122.04	105.86	110.12	113.55	102.33	124.29	89.37
1853	108.33	113.49	135.29	150.30	139.25	103.35	105.95	143.93	135.35	152.26	116.58
1854	155.25	142.74	175.49	184.65	161.29	130.96	110.71	146.73	146.05	131.36	124.68
1855	160.49	156.22	190.19	205.25	154.84	127.20	145.24	145.33	145.58	156.21	129.01
1856	150.62	145.23	175.98	192.73	149.46	136.82	149.70	144.86	109.30	128.25	130.99
1857	115.74	115.15	125.49	183.43	138.17	123.43	136.61	132.71	139.53	107.91	95.59
1858	95.06	98.75	111.76	153.54	129.03	103.35	124.11	117.29	138.14	112.99	66.49
1859	101.23	95.02	114.71	147.88	128.49	111.30	105.36	99.07	134.88	115.54	74.95
1860	118.52	112.24	129.90	144.24	134.95	118.41	107.14	118.22	138.14	118.64	110.09
1861	126.54	120.75	127.94	160.81	131.18	118.41	121.73	121.96	136.74	118.93	137.30
1862	118.83	109.13	138.73	154.34	122.58	113.81	112.50	115.26	138.60	115.25	87.39
1863	102.47	92.95	125.00	128.48	104.30	106.28	111.01	104.67	111.63	102.82	86.31
1864	85.80	85.06	99.51	110.30	118.28	92.89	97.92	107.48	100.00	109.04	92.51
1865	88.89	82.17	111.27	120.40	138.17	110.04	92.86	108.41	116.74	125.99	94.60
1866	104.63	101.24	125.98	147.88	140.86	131.80	139.29	115.42	136.74	122.03	99.82
1867	146.30	120.95	174.02	177.37	153.23	138.91	146.43	122.43	145.12	120.34	126.95
1868	140.43	114.52	171.08	174.95	163.98	147.56	135.71	143.93	159.53	127.97	107.03
1869	107.41	103.94	143.63	141.82	156.99	143.10	131.25	139.72	145.12	113.56	101.89
1870	103.39	102.90	127.94	146.26	130.29	112.87	116.07	128.97	134.88	128.81	101.26
1871	123.25	110.30	152.78	143.57	139.61	127.89	119.25	124.45	141.55	114.78	113.51
1872	128.19	119.02	129.25	154.48	134.59	152.72	131.85	125.70	146.98	116.85	118.92
1873	133.44	126.28	148.37	169.43	147.85	159.14	142.06	137.69	172.56	135.59	116.74
1874	119.96	119.50	150.98	170.10	165.59	154.39	161.71	138.32	163.72	125.89	128.83
1875	105.45	98.13	135.95	152.86	158.42	152.30	148.81	132.71	160.31	111.86	119.82
1876	109.26	102.42	140.52	162.02	156.27	135.98	145.04	151.25	161.24	108.29	121.08
1877	125.10	109.06	144.77	161.21	151.25	146.02	147.92	139.10	155.97	119.40	138.74
1878	110.19	108.37	116.99	149.90	129.39	140.78	148.31	126.01	147.91	105.08	134.41
1879	109.88	108.78	118.46	144.78	125.99	152.72	140.97	134.58	149.92	114.41	142.34
1880	111.83	109.51	150.08	170.57	133.07	147.70	151.39	143.93	155.50	124.91	140.18
1881	114.25	115.21	161.44	172.79	141.13	145.68	148.02	128.27	161.94	122.98	112.61
1882	105.09	110.75	131.29	142.02	139.07	138.77	143.25	133.64	169.57	116.81	91.17
1883	95.99	99.80	118.30	121.01	123.12	121.12	142.96	169.78	142.79	118.60	110.81
1884	86.32	84.72	114.13	121.35	123.12	112.48	146.08	119.31	142.87	116.15	101.62
1885	78.86	78.39	99.75	113.27	123.57	99.65	137.50	126.71	137.05	111.21	98.56
1886	77.47	72.96	90.28	103.30	117.03	108.58	131.50	107.32	116.67	94.35	98.20
1887	77.31	71.54	82.19	95.89	98.66	90.86	134.03	90.34	116.74	96.61	97.30
1888	80.20	73.65	87.91	83.16	90.95	102.58	122.92	93.22	121.09	98.59	121.98
1889	73.77	70.06	88.48	101.08	106.81	98.68	133.68	98.75	116.67	98.35	117.12
1890	76.44	73.37	103.92	114.48	115.50	96.51	138.89	96.50	113.10	103.86	123.42
1891	96.97	83.68	141.42	151.52	123.66	100.91	148.76	120.25	130.31	101.41	156.94

a The prices are those paid by Hamburg institutions (hospitals, etc.) for large purchases.

TABLE 68.—*Relative prices of commodities in Hamburg—Calculations of Dr. Soetbeer*—Continued.

[1847 to 1850=100.]

Year.	12. Hops.	13. Clover seed.	14. Rape-seed.	15. Rape-seed oil.	16. Linseed oil.	17. Oil cake.	18. Raw sugar.	19. Refined sugar.	20. Spirits from grain or potatoes.	1-20. Total.
1851	149.73	112.97	84.95	87.43	113.77	87.82	93.30	91.55	102.47	99.00
1852	168.45	132.93	91.90	91.81	103.49	96.15	88.44	89.44	142.86	110.71
1853	218.45	148.94	110.15	93.96	105.45	114.10	101.71	100.00	166.33	128.18
1854	314.30	167.62	114.12	115.55	129.50	128.85	104.07	97.78	228.06	150.49
1855	241.24	172.45	165.97	147.31	137.20	148 08	108.94	117.11	222.52	158.82
1856	140.17	191.81	140.97	131.76	134.33	139.74	140.47	136.11	211.28	149.03
1857	144.59	178.61	128.01	132.75	156.69	140.38	158.87	156.81	171.87	138.11
1858	132.75	169.55	124.77	110.34	110.28	142.31	116.16	129.67	112.04	119.92
1859	185.23	183.49	102.78	98.68	102.57	126.28	113.93	123.23	125.02	119.48
1860	332.35	167.76	113.89	110.01	102.06	114.10	117.87	119.11	147.36	133.75
1861	221.59	160.07	117.36	105.38	111.51	113.46	97.63	118.16	161.67	131.46
1862	171.06	151.61	135.88	123.90	135.66	141.67	97.24	112.14	140.42	126.80
1863	226.27	146.46	120.37	117.37	147.69	137.18	96.45	110.24	124.52	120.12
1864	259.36	143.70	121.99	109.43	130.73	121.79	119.32	126.93	124.71	117.89
1865	282.35	204.42	129.63	114.81	120 66	161.54	99.34	108.66	112.70	126.48
1866	364.04	195.58	116.44	116.71	137.31	134.62	95.27	111.09	116.12	137.64
1867	291.58	223.55	115.05	99.75	131.90	134.62	96.45	111.72	151.00	146.38
1868	206.22	176.94	105.79	90.98	118.50	169.87	103.55	118.16	155.15	141.59
1869	183.16	151.61	120.83	95.78	110.69	168.59	119.84	126.29	142.92	132.40
1870	207.75	177.18	134.49	122.83	114.18	174.36	113.80	121.12	125.25	131.23
1871	320.86	201.69	141.74	111.22	120.09	161.32	159.83	130.94	136.59	144.76
1872	313.03	188.19	122.62	103.14	123.71	185.47	116.08	133.51	139.12	144.17
1873	315.55	156.92	108.18	88.01	119.84	161.11	112.22	123.86	147.36	146.21
1874	425.73	165.90	98.77	91.34	108.39	158.33	110.29	114.36	147.77	150.99
1875	322.04	172.71	112.11	90.49	92.15	171.79	101.40	109.22	114.76	138.16
1876	309.96	209.75	120.45	94.54	96.20	173.93	104.86	107.60	110.45	141.06
1877	280.79	213.74	127.78	102.70	105.52	171.58	123.48	121.40	121.32	145.34
1878	217.85	171.17	113.12	93.38	101.23	180.98	121.73	107.88	125.28	132.50
1879	268.36	157.22	102.39	81.97	99.08	165.17	112.22	101.30	127.87	132.92
1880	201.50	162.45	92.44	79.13	102.86	160.90	112.16	106.18	145.87	138.11
1881	255.58	151.85	107.80	80.81	99.45	165.92	110.75	104.72	148.78	137.50
1882	412.77	158.01	113.89	80.14	93.88	159.62	108.13	102.11	124.17	138.45
1883	517.19	200.50	119.02	98.68	85.53	149.36	101.99	98.29	131.68	143.33
1884	348.45	173.84	95.72	88.60	78.81	141.56	80.29	82.35	119.16	123.85
1885	242.99	155.52	90.24	74.57	84.87	130.56	58.23	68.32	105.26	110.75
1886	213.34	145.86	93.98	66.50	76.89	117.31	52.65	65.70	76.24	101.31
1887	198.30	137.32	86.19	69.99	74.24	120.51	55.19	57.95	74.50	96.28
1888	209.21	136.14	92.25	69.45	68.14	128.31	52.91	65.86	65.00	98.18
1889	206.04	143.85	96.84	71.82	75.56	135.79	73.30	71.28	63.35	102.06
1890	267.41	128.12	98.92	80.07	83.68	132.26	61.21	68.97	73.93	107.53
1891	267.38	142.16	97.07	73.20	82.91	134.29	62.44	67.11	115.24	119.88

TABLE 68.—*Relative prices of commodities in Hamburg—Calculations of Dr. Soetbeer*—Continued.

[1847 to 1850 = 100.]

Year.	21. Beef.a	22. Veal.a	23. Mutton.a	24. Pork.a	25. Milk.a	26. Butter.a	27. Cheese.	28. Tallow.	29. Lard.	30. Hides.	31. Calf skins.
1851	88.89	86.42	102.15	115.12	95.71	101.67	98.42	85.46	108.05	107.25	104.23
1852	80.56	79.01	102.15	115.12	95.71	101.67	103.16	95.18	114.24	101.03	89.35
1853	86.11	88.89	102.15	115.12	95.71	128.33	115.36	118.92	123.71	123.17	107.12
1854	90.28	91.36	102.15	115.12	95.71	139.17	127.48	143.90	124.81	130.98	125.54
1855	109.72	106.17	102.15	127.91	95.71	145.00	134.79	131.70	125.64	134.99	130.43
1856	105.56	102.47	102.15	123.26	95.71	160.83	131.17	126.22	130.93	154.79	153.58
1857	100.00	101.23	102.15	117.44	95.71	155.00	136.37	132.21	135.50	207.81	168.50
1858	100.00	101.23	102.15	111.63	95.71	162.50	131.10	116.51	112.50	141.67	132.69
1859	90.28	91.36	102.15	104.65	95.71	153.33	129.89	128.78	111.21	161.72	179.96
1860	88.11	88.89	102.15	109.30	95.71	165.83	135.24	130.53	121.33	171.67	200.69
1861	95.83	91.36	102.15	109.30	85.71	142.50	124.15	125.35	115.08	144.12	153.73
1862	109.72	101.23	112.90	122.09	100.00	138.33	123.12	113.00	95.43	138.72	144.23
1863	106.94	97.53	113.98	122.09	85.71	130.00	135.92	100.00	81.38	123.79	160.46
1864	111.11	102.47	113.98	122.09	85.71	150.00	129.29	95.40	104.77	127.58	176.46
1865	122.22	125.93	89.25	122.09	157.14	162.50	132.38	101.17	144.39	119.50	170.50
1866	133.33	128.40	107.53	112.79	142.86	159.17	139.53	100.29	127.58	119.35	155.96
1867	141.67	128.40	106.45	108.14	142.86	146.67	144.28	112.42	111.79	124.03	160.62
1868	136.11	132.10	108.60	117.44	157.14	180.83	136.82	109.20	133.18	138.93	164.81
1869	138.89	129.63	112.90	130.23	157.14	178.33	145.18	108.84	139.30	125.97	159.62
1870	138.89	125.93	119.35	122.09	142.86	156.67	138.25	107.83	134.41	134.83	159.77
1871	150.00	137.04	126.88	108.14	142.86	170.00	143.32	107.01	110.07	155.92	171.29
1872	152.78	153.09	160.22	124.42	171.43	165.83	161.14	105.31	86.79	181.84	192.41
1873	169.44	153.09	116.13	137.21	171.43	190.00	161.05	102.53	92.91	187.74	191.32
1874	165.28	170.37	131.18	127.33	171.43	215.83	159.18	100.39	113.79	178.43	173.53
1875	162.50	148.77	140.86	136.05	200.00	200.00	160.00	105.95	131.21	163.50	154.21
1876	170.83	177.78	163.44	126.74	185.71	217.50	160.09	107.04	120.06	133.89	123.95
1877	173.61	187.65	160.22	127.91	200.00	195.00	174.50	104.60	105.15	135.50	112.55
1878	172.92	179.01	155.91	118.60	200.00	182.50	154.57	99.46	83.81	125.59	103.21
1879	158.33	170.37	150.54	116.28	185.71	168.33	145.53	86.41	78.11	125.06	112.68
1880	168.06	174.07	153.76	132.56	171.43	193.33	150.92	84.73	90.29	140.25	136.17
1881	151.39	180.25	155.91	144.19	171.43	200.83	153.64	89.88	120.40	143.05	125.42
1882	163.89	181.48	162.37	134.88	171.43	200.00	143.30	105.97	125.34	140.16	126.04
1883	165.28	186.42	174.19	126.74	171.43	191.67	147.77	109.34	106.28	140.54	124.87
1884	161.11	187.65	156.99	117.44	171.43	190.00	144.23	92.38	86.18	140.68	120.92
1885	150.00	185.19	141.94	117.44	171.43	176.67	130.23	84.99	72.97	141.33	122.00
1886	150.00	183.95	146.24	125.58	157.14	167.50	128.11	69.27	69.15	128.34	115.66
1887	144.44	186.42	133.23	119.77	142.86	172.50	130.52	68.15	74.79	124.40	104.28
1888	140.28	192.59	138.71	118.60	142.86	180.00	143.65	68.35	91.65	112.27	94.76
1889	148.61	182.72	137.63	139.53	142.86	197.50	140.44	75.80	82.14	108.95	81.42
1890	156.94	186.42	147.31	147.67	157.14	183.33	142.67	68.09	72.71	104.25	88.83
1891	163.89	186.42	135.48	139.53	157.14	187.50	149.40	68.05	71.36	103.64	86.73

a The prices are those paid by Hamburg institutions (hospitals, etc.) for large purchases.

TABLE 68.—*Relative prices of commodities in Hamburg—Calculations of Dr. Soetbeer*—Continued.

[1847 to 1850 = 100.]

Year.	32. Leather.	33. Horsehair.	34. Bristles.	35. Feathers.	36. Bone.	37. Ox horns.	38. Mucilage.	39. Eggs. (a)	40. Herring.	41. Cured fish.	42. Fish oil.	21–42. Total.
1851	114.99	136.07	116.54	108.52	105.20	126.03	99.20	123.28	90.64	95.24	119.14	110.38
1852	116.17	105.47	120.32	115.40	107.52	136.76	96.57	123.28	126.51	103.17	118.50	106.68
1853	100.41	136.61	139.76	116.22	115.79	140.29	97.21	123.28	125.10	109.92	119.52	114.94
1854	108.48	122.57	176.68	104.82	119.55	128.09	114.05	123.28	121.98	122.62	126.14	121.12
1855	128.40	95.44	137.03	117.61	136.09	104.71	127.37	123.28	122.66	133.73	147.55	123.54
1856	141.20	151.00	119.23	114.65	133.83	115.29	118.12	123.28	132.55	124.40	147.19	127.61
1857	162.87	165.43	136.94	112.15	140.60	144.41	167.52	123.28	163.84	146.63	148.41	140.18
1858	140.52	140.28	125.13	109.20	130.08	171.18	162.73	123.28	135.53	127.98	120.90	127.02
1859	157.23	150.69	126.67	111.10	134.59	177.50	141.10	123.28	144.54	143.06	116.28	130.69
1860	166.23	144.97	179.07	102.36	115.04	201.62	129.85	123.28	130.51	130.16	112.03	133.75
1861	140.56	123.11	134.30	103.25	119.55	173.09	140.70	123.28	147.85	135.52	114.96	124.79
1862	153.90	122.33	131.79	109.08	119.55	158.82	126.58	138.79	135.70	172.62	130.18	127.19
1863	155.57	125.20	105.08	102.99	123.31	157.94	121.79	132.47	128.99	163.29	156.25	124.12
1864	166.08	116.43	150.52	97.53	121.05	145.88	116.12	136.21	128.94	148.81	196.21	129.21
1865	162.88	109.59	142.25	107.44	119.55	168.38	119.15	120.69	149.53	178.37	150.23	135.23
1866	184.19	98.42	156.80	108.52	124.81	174.26	117.64	126.15	159.56	175.40	131.50	135.64
1867	134.52	124.46	141.52	104.97	127.07	203.97	109.42	119.83	152.40	138.69	134.76	132.68
1868	111.62	134.85	119.61	111.10	113.53	173.38	116.68	125.86	151.60	145.44	117.70	133.48
1869	127.36	158.96	124.98	115.78	146.37	235.49	168.16	129.60	125.23	172.62	119.89	143.25
1870	128.76	149.76	155.31	135.29	154.89	179.41	132.80	129.31	126.27	161.51	130.91	139.32
1871	119.80	197.65	159.61	131.81	150.63	169.71	143.55	142.24	148.05	167.72	117.74	144.14
1872	138.94	163.45	206.44	135.03	163.41	206.42	184.73	152.30	143.36	155.22	123.46	155.82
1873	126.92	154.52	231.57	152.97	160.15	158.43	185.69	164.94	153.58	174.87	111.37	156.72
1874	148.35	131.63	204.89	152.72	176.19	183.68	168.45	159.48	157.53	171.76	109.27	157.76
1875	116.08	144.90	207.35	185.89	194.24	206.23	155.24	163.51	154.86	146.76	110.69	158.59
1876	121.55	114.78	216.66	165.79	168.92	202.94	136.37	155.75	163.36	185.58	107.83	155.79
1877	114.16	98.17	206.21	132.29	160.40	240.25	121.89	150.86	176.40	173.74	104.19	152.51
1878	99.00	94.50	181.69	118.58	152.13	192.70	116.31	154.31	163.70	169.58	95.58	141.53
1879	100.35	89.83	196.92	130.93	128.07	190.93	121.07	148.56	185.09	151.79	84.35	137.60
1880	114.38	104.89	217.59	119.32	141.10	291.37	128.77	155.75	160.35	129.73	81.68	147.30
1881	119.36	96.48	215.48	115.86	142.23	286.37	123.68	162.36	168.40	158.47	101.52	151.21
1882	120.88	119.51	228.92	100.95	160.53	258.90	138.73	152.30	176.44	190.15	111.50	155.17
1883	136.75	133.05	233.01	111.36	170.18	211.67	138.04	153.16	180.64	208.16	120.19	156.40
1884	140.93	135.53	240.70	108.28	154.89	212.92	140.54	154.02	159.36	189.35	100.28	150.26
1885	125.39	125.24	211.43	100.69	127.94	209.75	143.68	148.85	144.64	174.54	83.54	140.45
1886	127.77	106.78	202.84	97.90	106.39	220.56	126.44	149.43	131.26	154.37	73.01	133.53
1887	125.42	111.62	217.01	98.27	116.17	190.78	130.34	135.06	114.96	148.71	68.96	129.93
1888	116.62	182.00	191.81	98.69	114.29	163.33	133.13	146.55	124.84	160.55	66.96	128.97
1889	128.94	105.15	198.68	87.56	113.16	194.63	123.26	143.68	121.38	157.77	69.01	130.95
1890	136.06	106.60	208.73	85.83	132.96	135.74	111.36	156.61	123.26	145.50	58.69	129.85
1891	129.98	100.37	219.45	90.64	116.04	150.37	117.73	143.68	144.05	164.95	70.22	131.66

a The prices are those paid by Hamburg institutions (hospitals, etc.) for large purchases.

TABLE 68—*Relative prices of commodities in Hamburg—Calculations of Dr. Soetbeer*—Continued.

[1847 to 1850 = 100.]

Year.	43. Raisins.	44. Currants.	45. Almonds.	46. Prunes.	47. Olive oil.	48. French wine, exclusive of champagne.	49. Champagne.	43–49. Total.	50. Coffee.	51. Cocoa.	52. Tea.
1851	83.29	67.96	111.57	95.45	73.48	100.83	97.39	90.00	110.84	89.45	103.82
1852	80.06	105.51	110.87	81.97	91.05	103.62	94.22	95.33	110.84	98.98	94.62
1853	123.60	199.50	116.52	86.06	114.79	136.56	96.44	124.78	125.57	104.53	102.57
1854	128.93	57.32	115.99	89.55	103.12	199.38	96.08	112.91	127.18	104.44	99.69
1855	121.07	160.58	119.40	118.18	95.01	278.99	100.95	142.03	124.19	142.00	90 91
1856	190.17	232.99	120.53	118.79	89.58	237.68	102.62	155.95	129.05	158.56	103.41
1857	220.93	185.86	140.09	134.70	102.27	288.80	112.57	169.32	142.31	254.30	115.80
1858	145.93	100.88	114.34	101.06	81.25	195.65	105.75	120.69	122.98	163.09	96.91
1859	137.78	98.00	98.93	112.12	86.46	154.46	106.02	113.40	143.85	163.64	115.[illegible]
1860	128.09	86.48	97.92	103.48	106.63	215.18	104.76	120.36	164.81	199.35	130.[illegible]
1861	123.17	83.60	104.05	108.64	105.08	227.86	102.13	122.08	166.02	178.08	102.[illegible]
1862	119.38	79.85	95.68	92.12	101.76	203.51	105.23	113.93	182.36	175.21	115.[illegible]
1863	128.51	80.60	104.21	99.85	98.19	188.80	104.66	114.97	190.21	175.49	121.[illegible]
1864	116.01	79.85	107.57	107.12	102.66	151.41	101.27	109.41	187.14	199.26	109.14
1865	112.08	73.59	116.90	119.70	98.47	172.64	104.67	114.01	176.38	184.46	99.96
1866	149.44	78.97	138.33	135.61	124.14	142.97	114.65	126.30	164.24	204.53	96.11
1867	141.71	73.34	138.97	130.76	121.64	168.30	110.39	126.44	147.01	182.24	118.19
1868	118.54	63.45	133.10	90.39	135.47	185.62	109.66	120.75	130.10	149.58	116.99
1869	105.34	67.58	124.31	116.21	105.10	179.78	110.73	115.58	133.66	145.88	106.94
1870	136.38	94.62	130.12	95.76	107.25	155.51	110.36	118.57	135.60	146.99	95.72
1871	125.66	96.29	119.30	123.69	101.61	176.34	118.02	122.99	150.70	154.09	95.19
1872	122.05	95.08	105.05	134.04	96.45	207.32	117.52	125.36	197.20	170.86	102.03
1873	135.58	84.73	100.64	166.87	84.70	232.17	120.39	132.15	239.19	148.23	96.97
1874	141.34	92.87	109.91	184.14	87.95	272.75	126.21	145.02	250.92	152.45	98.01
1875	155.81	93.62	120.70	115.45	93.18	217.21	123.50	131.35	243.64	158.59	99.05
1876	129.31	103.92	119.81	125.45	95.17	203.66	123.52	128.69	224.51	201.82	96.63
1877	111.70	102.96	134.72	151.82	102.72	255.91	124.00	140.55	232.17	211.81	82.42
1878	86.89	72.22	149.04	131.62	104.74	280.91	114.99	134.34	201.48	246.93	77.50
1879	111.28	85.15	161.30	126.62	98.26	273.19	117.81	139.10	183.68	304.38	86.70
1880	128.35	93.93	145.28	139.60	97.45	353.88	124.09	154.65	193.03	202.93	82.08
1881	145.97	89.05	131.93	109.85	88.38	333.19	127.61	146.57	167.83	212.75	75.01
1882	137.55	95.70	121.99	116.69	89.32	289.02	124.37	139.23	135.29	216.90	74.33
1883	113.79	91.99	140.95	136.19	80.93	301.92	130.86	142.38	135.10	244.79	72.74
1884	96.30	73.65	126.79	96.04	86.20	241.16	120.98	120.16	134.61	229.03	73.59
1885	119.43	78.10	116.18	91.21	87.37	255.11	118.84	123.78	122.98	246.90	71.45
1886	110.60	89.70	116.16	81.57	81.82	265.40	111.84	122.44	134.16	212.43	70.41
1887	90.15	92.22	119.74	82.10	88.17	265.29	114.21	121.81	207.50	220.29	61.68
1888	87.50	72.09	115.70	76.64	92.15	285.47	111.05	120.09	182.46	211.24	71.43
1889	89.98	67.08	130.83	98.08	87.25	295.33	124.83	127.57	214.90	196.48	70.72
1890	114.23	77.01	149.09	98.23	87.08	316.16	128.46	138.01	232.03	203.67	68.68
1891	109.64	83.31	153.53	95.15	96.66	303.12	138.54	139.99	220.47	221.72	74.31

TABLE 68.—*Relative prices of commodities in Hamburg—Calculations of Dr. Soetbeer*—Continued.

[1847 to 1850 = 100.]

Year.	53. Pepper.	54. Pimento.	55. Cassia.	56. Rice.	57. Sago.	58. Arrack.	59. Rum.	60. Tobacco.	61. Indigo.	62. Cochineal.	63. Logwood.
1851	114.38	106.18	117.60	80.75	92.86	96.51	100.46	112.25	112.23	79.24	83.96
1852	129.63	104.88	127.49	69.52	80.75	94.11	94.02	103.02	118.96	77.36	89.30
1853	149.13	116.51	135.31	94.12	97.58	113.94	126.93	116.87	127.93	96.24	127.27
1854	166.99	112.74	132.38	85.92	95.28	129.57	134.64	116.87	123.45	88.64	140.11
1855	153.27	103.58	130.32	96.79	107.38	167.31	147.99	125.55	127.92	84.90	122.46
1856	175.82	95.90	118.97	74.87	107.38	163.46	138.43	149.08	127.93	83.02	124.60
1857	165.90	86.09	148.13	73.98	104.24	158.77	169.51	159.42	152.63	79.21	108.56
1858	146.30	62.74	113.17	60.07	80.63	106.85	120.25	129.00	153.39	79.50	91.98
1859	151.63	63.52	95.11	65.60	80.39	90.38	137.28	144.64	153.63	76.03	97.86
1860	145.64	67.49	104.75	72.73	83.17	92.67	142.12	147.97	163.11	61.24	107.49
1861	137.47	58.26	102.65	73.26	83.17	112.62	136.36	167.06	172.31	60.32	119 79
1862	136.60	60.21	99.51	69.34	95.28	96.75	111.97	176.97	188.83	53.15	123.53
1863	130.50	53.90	105.20	68.09	86.92	123.56	115.88	139.59	149.70	59.21	107.49
1864	127.03	47.53	100.17	68.27	91.28	122.96	150.52	138.35	155.04	70.81	103.74
1865	118.41	51.24	99.86	73.62	83.29	113.82	130.49	116.81	151.08	73.48	110.16
1866	114.71	50.33	111.88	67.56	76.15	109.62	135.90	107.27	169.35	77.70	119.25
1867	116.99	40.96	119.11	70.94	77.00	122.12	140.28	119.09	169.25	75.82	94.65
1868	96.96	46.23	133.15	70.05	88.62	135.82	156.04	125.25	181.88	85.36	119.25
1869	151.63	45.32	151.76	57.04	87.89	152.76	171.46	153.47	201.06	68.79	137.43
1870	173.86	45.32	136.33	65.24	75.30	140.02	178.25	138.49	202.07	61.41	116.04
1871	200.04	43.15	124.02	66.43	73.04	121.15	156.85	142.06	189.09	60.71	117.65
1872	236.60	66.49	104 54	67.80	73.33	110.10	171.69	168.33	187.58	53.92	127.27
1873	260.82	60.29	90.78	60.67	75.71	141.71	192.87	152.22	164.40	55.27	126.92
1874	246.84	67.19	77.05	68.39	81.76	176.28	204.37	152.11	171.15	51.12	117.47
1875	204.28	65.06	65.68	57.34	77.32	169.03	183.31	146.28	168.28	45.51	146.17
1876	156.50	77.22	59.67	59.06	72.92	174.00	200.00	151.83	151.11	49.59	138.86
1877	150.62	85.22	58.10	63.04	80.06	176.16	208.71	145.50	152.38	55.48	132.09
1878	128.36	95.41	50.01	66.61	84.83	153.65	197.70	138.07	146.00	50.99	122.64
1879	131.25	103.86	48.19	62.45	82.36	116.59	188.38	130.17	144.55	56.19	129.59
1880	157.64	92.87	44.06	58.88	74.41	133.55	206.16	140.03	151.27	58.32	130.66
1881	192.03	98.71	49.67	58.67	76.41	115.71	213.50	133.85	161.54	42.81	122.55
1882	199.87	84.60	43.41	53.00	68.16	184.84	200.36	119.35	157.95	34.69	125.94
1883	234.84	68.02	39.98	57.19	59.32	96.17	214.88	115.20	151.10	25.88	118.98
1884	265.67	56.07	37.06	54.78	53.93	148.08	167.63	126.79	141.90	24.40	119.88
1885	276.87	53.31	31.67	51.60	57.65	134.98	199.06	128.70	126.35	30.84	112.57
1886	249.09	50.70	29.83	48.63	54.48	152.66	208.75	130.86	129.21	29.59	111.41
1887	253.00	51.78	25.57	50.30	54.30	158.15	208.65	118.21	125.20	25.89	112.75
1888	290.56	54.23	22.01	49.52	63.42	139.00	201.55	117.53	121.31	23.32	132.17
1889	246.55	65.64	25.72	50.08	66.10	142.05	197.47	127.62	138.98	22.60	145.19
1890	205.74	64.97	22.96	52.50	54.98	154.71	226.20	134.24	107.55	22.45	140.73
1891	158.68	58.40	22.81	54.04	53.09	145.51	180.57	125.49	123.97	22.24	123.98

TABLE 68.—*Relative prices of commodities in Hamburg—Calculations of Dr. Sauerbeer*—Continued.

[1847 to 1850=100.]

Year.	64. Redwood.	65. Mahogany.	66. Cane.	67. Palm oil.	68. Ivory.	50-68. Total.	69. Coal.	70. Pig iron.	71. Bar iron.	72. Steel.	73. Lead.
1851	96.05	110.50	106.01	86.80	98.97	99.94	87.79	75.00	80.91	91.42	160.82
1852	94.65	110.50	105.23	89.18	106.08	99.95	87.60	78.23	82.94	102.90	90.95
1853	98.60	107.67	116.47	110.91	122.13	115.28	113.86	106.45	112.12	89.41	117.11
1854	96.74	109.59	101.94	146.47	132.60	118.17	131.28	140.32	128.18	115.50	129.28
1855	102.56	89.32	106.59	130.98	145.32	121.02	120.79	127.42	114.85	144.26	141.28
1856	103.02	109.44	116.28	124.66	151.63	123.95	119.39	123.39	121.82	130.10	130.39
1857	131.40	127.95	172.29	136.30	179.32	140.32	114.24	118.55	121.21	128.21	127.96
1858	89.77	93.97	158.72	116.59	156.55	112.76	100.32	92.74	102.42	112.60	112.99
1859	97.91	108.49	133.72	127.50	151.32	115.74	99.36	87.90	102.42	108.08	121.28
1860	84.42	123.84	121.90	122.91	149.28	120.28	96.50	87.90	98.48	102.56	116.28
1861	73.49	107.12	119.38	123.92	133.06	117.19	101.27	83.06	93.03	103.79	114.14
1862	66.28	88.22	136.48	115.38	136.80	117.28	101.91	84.68	95.15	107.80	109.05
1863	61.63	126.58	172.09	98.23	134.99	116.87	95.87	98.39	98.48	125.53	108.72
1864	65.12	189.86	188.76	110.54	163.53	125.74	102.42	101.61	111.82	108.92	112.34
1865	72.79	127.67	172.87	110.36	139.23	146.11	103.94	99.19	108.79	108.70	107.63
1866	79.07	120.55	164.15	118.24	153.56	117.90	103.69	95.16	106.06	102.01	112.17
1867	84.19	90.68	134.88	122.46	146.83	114.35	101.84	93.55	102.12	88.29	104.61
1868	96.28	72.88	142.25	125.39	146.15	116.75	99.05	90.32	94.55	89.19	111.18
1869	82.79	67.95	140.31	126.86	146.98	122.10	96.19	88.71	93.64	90.19	108.55
1870	64.65	101.92	144.19	120.81	148.40	120.56	96.38	93.55	99.39	91.43	112.34
1871	59.77	94.52	138.89	157.47	138.52	120.22	98.86	97.58	107.68	108.44	107.73
1872	54.34	124.11	178.04	116.25	164.36	130.25	138.14	168.55	139.39	123.23	147.20
1873	57.20	117.73	193.22	113.41	204.32	134.32	174.57	193.01	172.98	106.13	172.92
1874	85.74	101.92	191.28	108.16	197.95	136.74	140.94	137.90	113.54	83.83	128.57
1875	78.22	92.33	182.75	107.39	219.95	132.11	114.88	110.22	119.29	73.62	127.66
1876	64.57	103.93	163.31	112.99	206.45	129.74	105.28	108.60	103.64	101.11	121.36
1877	60.78	99.27	169.90	118.73	193.16	130.29	97.90	96.51	94.55	89.56	120.94
1878	61.47	86.21	159.04	118.18	201.56	125.61	88.68	86.02	88.28	85.56	112.17
1879	64.81	85.39	153.55	104.89	166.54	123.34	83.28	76.88	79.60	69.97	102.25
1880	76.20	94.34	176.78	99.59	162.74	122.92	83.66	87.90	83.59	70.18	101.45
1881	66.24	90.91	179.17	96.30	175.74	122.60	80.55	79.84	80.86	69.03	85.39
1882	60.27	98.26	182.24	97.22	190.24	122.47	80.48	83.33	88.79	66.53	83.17
1883	57.95	102.24	181.17	105.64	202.13	120.17	80.42	80.11	82.37	64.79	78.89
1884	51.59	79.45	166.09	100.67	208.94	117.90	79.59	77.55	76.67	68.89	66.75
1885	43.18	73.15	172.06	83.32	194.77	116.39	78.26	69.09	72.02	63.94	70.97
1886	46.01	77.03	165.41	69.34	183.48	115.45	75.52	64.11	68.59	58.21	71.71
1887	46.86	79.77	169.35	65.35	180.32	116.59	74.06	67.74	70.00	48.51	86.92
1888	48.76	87.08	150.23	61.30	184.70	116.41	74.32	66.86	71.11	53.14	89.89
1889	44.50	100.05	151.71	68.16	181.00	118.82	83.92	82.98	82.58	68.35	102.69
1890	43.84	111.42	149.45	71.45	200.08	119.35	100.89	86.42	86.36	65.68	123.94
1891	54.15	87.35	151.81	73.62	205.45	123.56	103.75	75.27	84.70	71.28	134.31

TABLE 68.—*Relative prices of commodities in Hamburg—Calculations of Dr. Soetbeer—Continued.*

[1847 to 1850—100.]

Year.	14. Zinc.	15. Tin.	16. Copper.	17. Quicksilver.	18. Saltpeter, raw.	19. Saltpeter, Chile.	20. Salt.	21. Lime.	22. Cement.	23-22. Total.
1851	93.34	140.49	208.84	[illegible]	[illegible]	[illegible]	[illegible]	82.50	129.[illegible]	95.[illegible]
1852	107.53	126.[illegible]	126.66	[illegible]	[illegible]	[illegible]	[illegible]	82.50	125.[illegible]	95.[illegible]
1853	125.32	134.46	129.53	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1854	142.67	146.69	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	82.50	125.[illegible]	[illegible]
1855	145.37	144.38	135.38	[illegible]	[illegible]	[illegible]	[illegible]	82.50	[illegible]	[illegible]
1856	157.72	166.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	82.50	[illegible]	[illegible]
1857	191.65	195.92	172.91	[illegible]	[illegible]	[illegible]	[illegible]	82.50	[illegible]	[illegible]
1858	150.58	122.55	113.50	[illegible]	[illegible]	[illegible]	[illegible]	82.50	[illegible]	[illegible]
1859	134.36	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1860	127.00	172.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1861	115.83	153.46	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	82.50	[illegible]	[illegible]
1862	115.06	144.95	140.98	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1863	115.06	161.95	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1864	138.89	139.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1865	134.94	123.96	132.63	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1866	141.12	112.[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1867	128.61	114.14	97.59	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1868	129.34	120.41	89.39	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1869	133.39	150.89	99.44	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1870	124.71	164.97	87.89	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1871	115.51	172.57	90.67	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1872	147.66	194.39	114.50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1873	179.02	185.73	111.36	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1874	148.36	122.82	103.37	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1875	154.89	124.99	106.49	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1876	163.77	115.17	165.61	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1877	143.95	191.98	98.52	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1878	147.04	91.34	88.17	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1879	110.17	91.70	79.09	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1880	128.22	111.37	74.66	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1881	116.86	117.25	78.59	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1882	117.05	124.76	83.29	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1883	117.21	123.70	79.16	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1884	110.20	112.20	72.60	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1885	80.89	105.20	64.50	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1886	87.77	105.92	60.08	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1887	90.28	115.66	56.01	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1888	96.04	130.98	78.23	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1889	104.15	112.55	64.07	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1890	130.57	110.71	64.05	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
1891	146.11	100.32	67.22	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

TABLE 68.—*Relative prices of commodities in Hamburg—Calculations of Dr. Soetbeer.*

[1847 to 1850=100.]

Year.	1. Wheat.	2. Wheat flour.	3. Rye.	4. Rye flour.	5. Oats.	6. Barley.	7. Malt.	8. Buck-wheat.	9. Pease.	10. Beans.	11. Potatoes.a
1851	85.49	86.51	112.75	111.92	129.03	83.68	70.54	79.44	89.37	125.14	82.16
1852	89.51	94.81	117.65	139.19	122.04	105.86	110.12	113.55	102.33	124.29	89.37
1853	108.33	113.49	135.29	150.30	139.25	103.35	105.95	143.93	135.35	152.26	116.56
1854	155.25	142.74	175.49	184.65	161.29	130.96	110.71	146.73	146.05	131.36	134.68
1855	160.49	156.22	190.19	205.25	154.84	127.20	145.24	145.33	145.58	156.21	129.61
1856	150.62	145.23	175.98	192.73	149.46	136.82	149.70	144.86	109.30	128.25	139.99
1857	115.74	115.15	125.49	183.43	138.17	123.43	136.61	132.71	139.53	107.91	95.50
1858	95.06	98.75	111.76	153.54	129.03	108.35	124.11	117.29	138.14	112.99	66.49
1859	101.23	95.02	114.71	147.88	128.49	111.30	105.36	99.07	134.88	115.54	74.95
1860	118.52	112.24	129.90	144.24	134.95	118.41	107.14	118.22	138.14	118.64	110.09
1861	126.54	120.75	127.94	160.81	131.18	118.41	121.73	121.96	136.74	118.93	137.30
1862	118.83	109.13	138.73	154.34	122.58	113.81	112.50	115.26	138.60	115.25	87.39
1863	102.47	92.95	125.00	128.48	104.30	106.28	111.01	104.67	111.63	102.82	86.31
1864	85.80	85.06	99.51	110.30	118.28	92.89	97.92	107.48	100.00	109.04	93.51
1865	88.89	82.17	111.27	120.40	138.17	110.04	92.86	108.41	116.74	125.99	94.60
1866	104.63	101.24	125.98	147.88	140.86	131.80	139.29	115.42	136.74	122.03	99.82
1867	146.30	120.95	174.02	177.37	153.23	138.91	146.43	122.43	145.12	120.34	126.95
1868	140.43	114.52	171.08	174.95	163.98	147.56	135.71	143.93	159.53	127.97	167.08
1869	107.41	103.94	143.63	141.82	156.99	143.10	131.25	139.73	145.12	113.56	101.89
1870	103.39	102.90	127.94	146.26	130.29	112.87	116.07	128.97	134.88	128.81	101.26
1871	123.25	110.30	152.78	143.57	139.61	127.89	119.25	124.45	141.55	114.78	113.51
1872	128.19	119.02	129.25	154.48	134.59	152.72	131.85	125.70	146.98	116.85	118.92
1873	133.44	126.28	148.37	169.43	147.85	159.14	142.06	137.69	172.56	135.59	116.74
1874	119.96	119.50	150.98	170.10	165.59	154.39	161.71	138.32	163.72	125.89	128.83
1875	105.45	98.13	135.95	152.86	158.42	152.30	148.81	132.71	160.31	111.86	119.82
1876	109.26	102.42	140.52	162.02	156.27	135.98	145.04	151.25	161.24	108.29	121.06
1877	125.10	109.06	144.77	161.21	151.25	146.02	147.92	139.10	155.97	119.40	138.74
1878	110.19	108.37	116.99	149.90	129.39	140.73	148.31	126.01	147.91	105.06	134.41
1879	109.88	108.78	118.46	144.78	125.99	152.72	140.97	134.58	149.92	114.41	142.34
1880	111.83	109.51	150.08	170.57	133.07	147.70	151.39	143.93	155.50	124.91	140.18
1881	114.25	115.21	161.44	172.79	141.13	145.68	148.02	128.27	161.94	122.98	112.61
1882	105.09	110.75	131.29	142.02	139.07	138.77	143.25	133.64	166.57	116.81	91.17
1883	95.99	99.80	118.30	121.01	123.12	121.12	142.96	109.78	142.79	118.60	110.61
1884	86.32	84.72	114.13	121.35	123.12	112.48	146.08	119.31	142.87	116.15	101.62
1885	78.86	78.39	99.75	113.27	123.57	99.65	137.50	126.71	137.05	111.21	98.56
1886	77.47	72.96	90.28	103.30	117.03	108.58	131.50	107.32	116.67	94.35	98.20
1887	77.31	71.54	82.19	95.89	98.66	90.86	134.03	90.34	116.74	96.61	97.30
1888	80.20	73.65	87.91	83.16	90.95	102.58	122.92	93.22	121.09	98.59	121.98
1889	73.77	70.06	88.48	101.08	106.81	98.68	133.68	98.75	116.67	98.35	117.12
1890	76.44	73.37	103.92	114.48	115.50	96.51	138.89	96.50	113.10	103.86	123.43
1891	96.97	83.68	141.42	151.52	123.66	100.91	148.76	120.25	130.31	101.41	156.94

a The prices are those paid by Hamburg institutions (hospitals, etc.) for large purchases.

TABLE 68.—*Relative prices of commodities in Hamburg—Calculations of Dr. Soetbeer*—Continued.

[1847 to 1850=100.]

Year.	12. Hops.	13. Clover seed.	14. Rape-seed.	15. Rape-seed oil.	16. Linseed oil.	17. Oil cake.	18. Raw sugar.	19. Refined sugar.	20. Spirits from grain or potatoes.	1-20. Total.
1851	140.73	112.97	84.95	87.43	113.77	87.82	93.30	91.55	102.47	99.00
1852	168.45	132.93	91.90	91.81	103.49	96.15	88.44	89.44	142.86	110.71
1853	218.45	148.94	110.15	93.96	105.45	114.10	101.71	100.00	166.33	128.18
1854	314.30	167.02	114.12	115.55	129.50	128.85	104.07	97.78	228.06	150.49
1855	241.24	172.45	165.97	147.31	137.20	148 08	108.94	117.11	222.52	158.82
1856	140.17	191.81	140.97	131.76	134.33	139.74	140.47	136.11	211.28	149.03
1857	144.59	178.61	128.01	132.75	136.69	140.38	158.87	156.81	171.87	138.11
1858	132.75	169.55	124.77	110.34	110.28	142.31	116.16	129.67	112.04	119.92
1859	185.23	183.49	102.78	98.68	102.57	120.28	113.93	123.23	125.02	119.48
1860	352.35	167.76	113.89	110.01	102.06	114.10	117.87	119.11	147.36	133.75
1861	221.59	160.07	117.36	105.38	111.51	113.46	97.63	118.16	161.67	131.46
1862	171.06	151.61	135.88	123.90	135.66	141.67	97.24	112.14	140.42	126.80
1863	220.27	146.46	120.37	117.37	147.69	137.18	96.45	110.24	124.52	120.12
1864	259.36	143.70	121.99	109.43	130.73	121.79	119.32	126.93	124.71	117.89
1865	282.35	204.42	129.63	114.81	120 66	161.54	99.34	108.66	112.70	126.48
1866	361.04	195.58	116.44	116.71	137.31	134.62	95.27	111.09	116.12	137.64
1867	201.58	223.55	115.05	99.75	131.96	134.62	96.45	111.72	151.00	146.38
1868	206.22	176.94	105.79	90.98	118.50	169.87	103.55	118.16	155.15	141.59
1869	183.16	151.61	120.83	95.78	110.69	168.59	119.84	126.29	142.92	132.40
1870	207.75	177.18	134.49	122.83	114.18	174.36	113.80	121.12	125.25	131.23
1871	320.86	201.69	141.74	111.22	120.09	161.32	159.83	130.94	136.59	144.76
1872	313.03	188.19	122.62	103.14	123.71	185.47	116.08	133.51	139.12	144.17
1873	315.55	150.92	108.18	88.01	119.84	161.11	112.22	123.86	147.36	146.21
1874	425.73	165.90	98.77	91.34	108.39	158.33	110.29	114.36	147.77	150.99
1875	322.04	172.71	112.11	90.49	92.15	171.79	101.40	109.22	114.76	138.16
1876	309.96	209.75	129.45	94.54	96.20	173.93	104.86	107.60	110.45	141.06
1877	280.79	213.74	127.78	102.70	105.52	171.58	123.48	121.40	121.32	145.34
1878	217.85	171.17	113.12	93.38	101.23	180.98	121.73	107.88	125.28	132.50
1879	268.36	157.22	102.39	81.97	99.08	165.17	112.22	101.30	127.87	132.92
1880	261.50	162.45	92.44	79.13	102.86	160.90	112.16	106.18	145.87	138.11
1881	255.58	151.85	107.80	80.81	99.45	165.92	110.75	104.72	148.78	137.50
1882	412.77	158.91	113.89	80.14	93.88	159.62	108.13	102.11	124.17	138.45
1883	517.19	200.50	119.02	98.68	85.53	140.36	101.99	98.29	131.68	143.33
1884	348.45	173.84	95.72	88.60	78.81	141.56	80.29	82.35	119.16	123.85
1885	242.90	155.52	90.24	74.57	84.87	130.56	58.23	68.32	105.26	110.75
1886	213.34	145.86	93.98	66.50	76.89	117.31	52.65	65.70	76.24	101.31
1887	198.30	137.32	86.19	69.99	74.24	120.51	55.19	57.95	74.50	96.28
1888	209.21	136.14	92.25	69.45	68.14	128.31	52.91	65.86	65.00	98.18
1889	206.04	143.85	96.84	71.82	75.56	135.79	73.30	71.28	63.35	102.06
1890	267.41	128.12	98.92	80.07	83.68	132.26	61.21	68.97	73.93	107.53
1891	287.38	142.16	97.07	73.20	82.91	134.29	62.44	67.11	115.24	119.88

TABLE 68.—*Relative prices of commodities in Hamburg—Calculations of Dr. Soetbeer*—Continued.

[1847 to 1850 = 100.]

Year.	21. Beef.a	22. Veal.a	23. Mutton.a	24. Pork.a	25. Milk.a	26. Butter.a	27. Cheese.	28. Tallow.	29. Lard.	30. Hides.	31. Calf skins.
1851	88.89	86.42	102.15	115.12	95.71	101.67	98.42	85.46	108.05	107.25	104.23
1852	80.56	79.01	102.15	115.12	95.71	101.67	103.16	95.18	114.24	101.03	89.35
1853	86.11	88.89	102.15	115.12	95.71	128.33	115.36	118.92	123.71	123.17	107.12
1854	90.28	91.36	102.15	115.12	95.71	139.17	127.48	143.90	124.81	130.98	125.54
1855	109.72	106.17	102.15	127.91	95.71	145.00	134.79	131.70	125.64	134.99	130.42
1856	105.56	102.47	102.15	123.26	95.71	160.83	131.17	126.23	130.93	154.79	153.54
1857	100.00	101.23	102.15	117.44	95.71	155.00	136.37	132.21	135.50	207.81	188.50
1858	100.00	101.23	102.15	111.63	95.71	162.50	131.10	116.51	112.50	141.67	152.69
1859	90.28	91.36	102.15	104.65	95.71	153.33	129.89	128.78	111.21	161.72	179.98
1860	88.11	88.89	102.15	109.30	95.71	165.83	135.24	130.53	121.33	171.67	200.69
1861	95.83	91.36	102.15	109.30	85.71	142.50	124.15	125.35	115.08	144.12	153.73
1862	109.72	101.23	112.90	122.09	100.00	138.33	123.12	113.00	95.43	138.72	144.23
1863	106.94	97.53	113.98	122.09	85.71	130.00	135.92	100.00	81.38	123.79	160.46
1864	111.11	102.47	113.98	122.09	85.71	150.00	129.29	95.40	104.77	127.58	176.46
1865	122.22	125.93	89.25	122.09	157.14	162.50	132.38	101.17	144.39	119.50	170.50
1866	133.33	128.40	107.53	112.79	142.86	159.17	139.53	100.29	127.58	119.35	156.98
1867	141.67	128.40	106.45	108.14	142.86	146.67	144.28	112.42	111.79	134.03	160.62
1868	136.11	132.10	108.60	117.44	157.14	180.83	136.82	109.20	133.18	138.93	164.81
1869	138.89	129.63	112.90	130.23	157.14	178.33	145.18	108.84	139.30	125.97	159.62
1870	138.89	125.93	119.35	122.09	142.86	156.67	138.25	107.83	134.41	134.83	159.77
1871	150.00	137.04	126.88	108.14	142.86	170.00	143.32	107.01	110.07	155.92	171.29
1872	152.78	153.09	160.22	124.42	171.43	165.83	161.14	105.31	86.79	181.84	192.41
1873	169.44	153.09	116.13	137.21	171.43	190.00	161.05	102.53	92.91	187.74	191.32
1874	165.28	170.37	131.18	127.33	171.43	215.83	159.18	100.39	113.79	178.43	173.53
1875	162.50	148.77	140.86	136.05	200.00	200.00	160.00	105.95	131.21	163.50	154.21
1876	170.83	177.78	163.44	126.74	185.71	217.50	160.09	107.04	120.06	133.89	123.86
1877	173.61	187.65	160.22	127.91	200.00	195.00	174.50	104.60	105.15	135.50	112.35
1878	172.92	179.01	155.91	118.60	200.00	182.50	154.57	99.46	83.81	125.59	103.21
1879	158.33	170.37	150.54	116.28	185.71	168.33	145.53	86.41	78.11	125.06	112.68
1880	168.06	174.07	153.76	132.56	171.43	193.33	150.92	84.73	90.29	140.25	136.17
1881	151.39	180.25	155.91	144.19	171.43	200.83	153.64	89.88	120.40	143.05	125.42
1882	163.89	181.48	162.37	134.88	171.43	200.00	143.30	105.97	125.34	140.16	136.04
1883	165.28	186.42	174.19	126.74	171.43	191.67	147.77	109.34	106.28	140.54	124.87
1884	161.11	187.65	156.99	117.44	171.43	190.00	144.23	92.38	86.18	140.68	120.92
1885	150.00	185.19	141.94	117.44	171.43	176.67	130.23	84.99	72.97	141.83	122.00
1886	150.00	183.95	146.24	125.58	157.14	167.50	128.11	69.27	69.15	128.24	115.68
1887	144.44	186.42	133.23	119.77	142.86	172.50	130.52	68.15	74.79	124.40	104.39
1888	140.28	192.59	138.71	118.60	142.86	180.00	143.65	68.35	91.65	112.27	94.76
1889	148.61	182.72	137.63	139.53	142.86	197.50	140.44	75.80	82.14	108.95	81.42
1890	156.94	186.42	147.31	147.67	157.14	183.33	142.67	68.09	72.71	104.25	88.83
1891	163.89	186.42	135.48	139.53	157.14	187.50	149.40	68.05	71.36	103.64	86.73

a The prices are those paid by Hamburg institutions (hospitals, etc.) for large purchases.

TABLE 68.—*Relative prices of commodities in Hamburg—Calculations of Dr. Soetbeer*—Continued.

[1847 to 1850 = 100.]

Year.	32. Leather.	33. Horse-hair.	34. Bristles.	35. Feathers.	36. Bone.	37. Ox horns.	38. Mucilage.	39. Eggs. (a)	40. Herring.	41. Cured fish.	42. Fish oil.	21-42. Total.
1851	114.99	136.07	116.54	108.52	105.29	126.03	99.20	123.28	90.64	95.24	119.14	110.38
1852	116.17	105.47	120.32	115.40	107.52	136.76	96.57	123.28	126.51	103.17	118.50	106.68
1853	100.41	136.61	139.76	116.22	115.79	140.29	97.21	123.28	125.10	109.92	119.52	114.94
1854	108.48	122.57	176.68	104.82	119.55	128.09	114.05	123.28	121.98	122.62	126.14	121.12
1855	128.40	95.44	137.03	117.61	136.09	104.71	127.37	123.28	122.66	133.73	147.55	123.54
1856	141.20	151.00	119.23	114.65	133.83	115.29	118.12	123.28	132.55	124.40	147.19	127.61
1857	162.87	165.43	136.94	112.15	140.60	144.41	167.52	123.28	163.84	146.63	148.41	140.18
1858	140.52	140.28	125.13	109.20	130.08	171.18	162.73	123.28	135.53	127.98	120.90	127.02
1859	157.23	150.69	126.67	111.10	134.59	177.50	141.10	123.28	144.54	143.06	116.28	130.69
1860	166.23	144.97	179.07	102.36	115.04	201.62	129.85	123.28	130.51	130.16	112.03	133.75
1861	140.56	123.11	134.30	103.25	119.55	173.09	140.70	123.28	147.85	135.52	114.96	124.79
1862	153.90	122.33	131.79	109.08	119.55	158.82	126.58	138.79	135.70	172.62	130.18	127.19
1863	155.57	125.20	105.08	102.99	123.31	157.94	121.79	132.47	128.99	163.29	156.25	124.12
1864	166.08	116.43	150.52	97.53	121.05	145.88	116.12	136.21	128.94	148.81	196.21	129.21
1865	162.88	109.59	142.25	107.44	119.55	168.38	119.15	120.69	149.53	178.37	150.23	135.23
1866	184.19	98.42	156.80	108.52	124.81	174.26	117.64	126.15	159.56	175.40	131.50	135.64
1867	134.52	124.46	141.52	104.97	127.07	203.97	109.42	119.83	152.40	138.69	134.76	132.68
1868	111.62	134.85	119.61	111.10	113.53	173.38	116.68	125.86	151.60	145.44	117.70	133.48
1869	127.36	158.96	124.98	115.78	146.37	235.49	168.16	129.60	125.23	172.62	119.89	143.25
1870	128.76	149.76	155.31	135.29	154.89	179.41	132.80	129.31	126.27	161.51	130.91	139.32
1871	119.80	197.65	159.61	131.81	150.63	169.71	143.55	142.24	148.05	167.72	117.74	144.14
1872	138.94	163.45	206.44	135.03	163.41	206.42	184.73	152.30	143.36	155.22	123.46	155.82
1873	126.92	154.53	231.57	152.97	160.15	158.43	185.69	164.94	153.58	174.87	111.37	156.72
1874	148.35	131.63	204.89	152.72	176.19	183.68	168.45	159.48	157.53	171.76	109.27	157.76
1875	116.08	144.90	207.35	185.89	194.24	206.23	155.24	163.51	154.86	146.76	110.69	158.59
1876	121.55	114.78	216.66	165.79	168.92	202.94	136.37	155.75	163.36	185.58	107.83	155.79
1877	114.16	98.17	206.21	132.29	160.40	240.25	121.89	150.86	176.40	173.74	104.19	152.51
1878	99.00	94.50	181.69	118.58	152.13	192.70	116.31	154.31	163.70	169.58	95.58	141.53
1879	100.35	89.83	198.92	130.93	128.07	190.93	121.07	148.56	185.09	151.79	84.35	137.60
1880	114.38	104.89	217.59	119.32	141.10	291.37	128.77	155.75	160.35	129.73	81.68	147.30
1881	119.36	96.48	215.48	115.86	142.23	286.37	123.68	162.36	168.40	158.47	101.52	151.21
1882	120.88	119.51	228.92	100.95	160.53	258.90	138.73	152.30	176.44	190.15	111.50	155.17
1883	136.75	133.05	233.01	111.36	170.18	211.67	138.04	153.16	180.64	208.16	120.19	156.40
1884	140.93	135.53	240.70	108.28	154.89	212.92	140.54	154.02	159.36	189.35	100.28	150.26
1885	125.39	125.24	211.43	100.69	127.94	209.75	143.68	148.85	144.64	174.54	83.54	140.45
1886	127.77	106.78	202.84	97.90	106.39	220.56	126.44	149.43	131.26	154.37	73.01	133.53
1887	125.42	111.62	217.01	98.27	116.17	190.78	130.34	135.06	114.96	148.71	68.96	129.93
1888	116.62	182.00	191.81	98.69	114.29	163.33	133.13	146.55	124.84	160.55	66.96	128.97
1889	128.94	105.15	198.68	87.56	113.16	194.63	123.26	143.68	121.38	157.77	69.01	130.95
1890	136.06	106.60	208.73	85.83	132.96	135.74	111.36	156.61	123.26	145.50	58.69	129.85
1891	129.98	100.27	219.45	90.64	116.04	150.37	117.73	143.68	144.05	164.95	70.22	131.66

a The prices are those paid by Hamburg institutions (hospitals, etc.) for large purchases.

TABLE 70.—*Summary of relative prices of commodities in Hamburg and England—Calculations of Dr. Soetbeer.*

[1847 to 1850=100.]

Year.	Products of agriculture, etc.	Animal and fish products.	Southern products.	Tropical products (exclusive of cotton).	Minerals and metals.	Textile materials.	Miscellaneous articles.	British articles of export.	Total.
1851	99.09	110.38	90.00	99.94	95.70	104.39	103.98	97.98	100.21
1852	110.71	106.68	95.33	99.95	95.76	105.01	95.09	95.98	101.69
1853	128.18	114.94	124.78	115.28	109.24	101.43	105.17	100.61	113.69
1854	150.49	121.12	112.91	118.17	115.95	111.64	119.44	99.53	121.25
1855	158.82	123.54	142.03	121.02	119.10	103.58	109.63	98.27	124.23
1856	149.03	127.61	155.95	123.95	116.65	100.02	100.50	98.50	123.27
1857	138.11	140.18	169.32	140.32	124.58	112.18	108.01	101.25	130.11
1858	119.92	127.02	120.69	112.76	109.04	103.59	99.70	100.91	113.53
1859	119.48	130.69	173.40	115.74	108.57	104.69	115.57	105.77	116.34
1860	133.75	133.75	120.36	120.28	108.66	108.74	116.83	105.60	120.98
1861	131.46	124.79	122.08	117.19	102.40	110.85	119.65	105.84	118.10
1862	126.80	127.19	113.93	117.28	101.88	124.31	156.99	114.22	122.05
1863	120.12	124.12	114.97	116.87	102.92	151.84	161.36	133.45	125.49
1864	117.89	129.21	109.41	125.74	104.53	154.26	162.58	146.53	129.28
1865	126.48	135.23	114.01	146.11	98.93	117.80	121.06	137.80	122.63
1866	137.64	135.64	126.30	117.90	96.54	134.94	111.30	140.36	125.85
1867	146.38	132.68	126.44	114.35	93.28	130.31	108.13	133.91	124.44
1868	141.59	133.48	120.75	116.75	91.76	127.18	101.25	127.56	121.99
1869	132.40	143.25	115.58	122.10	96.33	130.52	98.17	128.15	123.38
1870	131.23	139.32	118.57	120.56	99.68	122.87	111.21	122.68	122.87
1871	144.76	144.14	122.99	120.22	101.85	119.23	117.48	122.64	127.03
1872	144.17	155.82	125.36	130.25	121.63	122.79	128.54	130.07	135.62
1873	146.21	156.72	132.15	134.32	140.60	119.58	119.14	128.52	138.28
1874	150.99	157.76	145.02	136.74	116.70	112.80	112.21	126.06	136.20
1875	138.16	158.59	131.35	132.11	107.49	111.47	98.74	124.96	129.85
1876	141.06	155.79	128.69	129.74	106.27	105.54	101.78	119.23	128.33
1877	145.34	152.51	140.55	130.29	98.87	108.33	99.80	114.04	127.70
1878	132.50	141.53	134.34	125.61	94.14	102.33	97.24	111.03	120.69
1879	132.92	137.60	139.10	123.34	84.28	98.76	90.21	105.93	117.10
1880	138.11	147.30	154.65	122.92	88.33	96.72	95.23	108.15	121.89
1881	137.50	151.21	146.57	122.60	84.87	99.29	94.89	103.08	121.07
1882	138.45	155.17	139.23	122.47	86.99	95.10	99.10	104.72	122.14
1883	143.33	156.40	142.38	120.17	82.98	95.93	95.38	104.72	122.24
1884	123.85	150.26	120.16	117.90	78.69	97.02	84.82	103.36	114.25
1885	110.75	140.45	123.78	116.39	74.23	95.89	81.35	100.48	108.72
1886	101.31	133.53	122.44	115.45	70.52	89.76	78.75	97.03	103.99
1887	96.28	129.93	121.81	116.59	72.50	81.42	77.30	95.98	102.02
1888	98.18	128.97	120.09	116 41	75.57	82.17	74.31	94.91	102.04
1889	102.06	130.95	127.57	118.82	78.55	89.05	86.41	96.60	106.13
1890	107.53	129.85	138.61	119.35	83.54	81.92	91.70	94.90	108.13
1891	119.88	131.66	139.99	113.56	84.72	80.40	85.06	95.11	109.19

TABLE 68.—*Relative prices of commodities in Hamburg—Calculations of Dr. Soetbeer*—Continued.

[1847 to 1850 = 100.]

Year.	53. Pepper.	54. Pimento.	55. Cassia.	56. Rice.	57. Sago.	58. Arrack.	59. Rum.	60. Tobacco.	61. Indigo.	62. Cochineal.	63. Logwood.
1851	114.38	106.18	117.60	80.75	92.86	96.51	100.46	112.25	112.23	79.24	83.96
1852	129.63	104.88	127.49	60.52	80.75	94.11	94.02	103.02	118.96	77.36	89.30
1853	149.13	116.51	135.31	94.12	97.58	113.94	126.93	116.87	127.93	96.24	127.27
1854	166.99	112.74	132.38	85.92	95.28	129.57	134.64	116.87	123.45	88.64	140.11
1855	153.27	103.58	130.32	96.79	107.38	167.31	147.99	125.55	127.92	84.90	122.46
1856	175.82	95.90	118.97	74.87	107.38	163.46	138.43	149.08	127.93	83.02	124.60
1857	165.90	86.09	148.13	73.98	104.24	158.77	169.51	159.42	152.63	79.21	108.56
1858	146.30	62.74	113.17	60.07	80.63	106.85	120.25	129.00	153.39	79.50	91.98
1859	151.63	63.52	95.11	65.60	80.39	90.38	137.28	144.64	153.63	76.63	97.86
1860	145.64	67.49	104.75	72.73	83.17	92.67	142.12	147.97	163.11	61.24	107.49
1861	137.47	58.26	102.65	73.26	83.17	112.62	136.36	167.06	172.31	60.32	119 79
1862	136.60	60.21	99.51	69.34	95.28	96.75	111.97	176.97	188.83	53.15	123.53
1863	130.50	53.90	105.20	68.09	86.92	123.56	115.88	139.59	149.70	59.21	107.49
1864	127.02	47.53	100.17	68.27	91.28	122.96	150.52	138.35	155.64	70.81	103.74
1865	118.41	51.24	99.86	73.62	83.29	113.82	130.49	116.81	151.08	73.48	110.16
1866	114.71	50.33	111.88	67.56	76.15	109.62	135.90	107.27	169.35	77.70	119.25
1867	116.99	40.96	119.11	70.94	77.00	122.12	140.28	119.09	169.25	75.82	94.65
1868	96.95	46.23	133.15	70.05	88.62	135.82	156.04	125.25	181.88	85.36	119.25
1869	151.63	45.32	151.76	57.04	87.89	152.76	171.46	153.47	201.06	68.79	137.43
1870	173.86	45.32	136.33	65.24	75.30	140.02	178.25	138.49	202.07	61.41	116.04
1871	200.04	43.15	124.02	66.43	73.04	121.15	156.85	142.96	189.09	60.71	117.65
1872	236.60	66.49	104 54	67.80	73.33	110.10	171.69	168.33	187.58	53.92	127.27
1873	260.82	60.29	90.78	60.67	75.71	141.71	192.87	152.22	164.40	55.27	126.92
1874	246.84	67.10	77.05	68.39	81.76	176.28	204.37	152.11	171.15	51.12	117.47
1875	204.28	65.06	65.68	57.34	77.32	169.03	183.31	146.28	168.28	45.51	146.17
1876	156.50	77.22	59.67	59.06	72.92	174.00	200.00	151.83	151.11	49.59	138.86
1877	150.62	85.22	58.10	63.04	80.06	176.16	208.71	145.50	152.38	55.48	132.09
1878	128.36	95.41	50.01	66.61	84.83	153.65	197.70	138.07	146.00	50.99	122.64
1879	131.25	103.86	48.19	62.45	82.36	116.59	188.38	130.17	144.55	56.19	129.59
1880	157.64	92.87	44.06	58.88	74.41	133.55	206.16	140.03	151.27	58.32	130.66
1881	192.03	98.71	49.67	58.67	76.41	115.71	213.50	133.85	161.54	42.81	122.55
1882	199.87	84.60	43.41	53.00	68.16	184.84	200.36	119.35	157.95	34.69	125.94
1883	234.84	68.02	39.98	57.19	59.32	96.17	214.88	115.20	151.10	25.88	118.98
1884	265.67	56.07	37.06	54.78	53.93	148.08	167.63	126.79	141.90	24.40	119.88
1885	276.87	53.31	31.67	51.60	57.65	134.98	199.06	128.70	126.35	30.84	112.57
1886	289.09	50.70	29.83	48.63	54.48	152.66	208.75	130.86	129.21	29.59	111.41
1887	253.00	51.78	25.57	50.30	54.30	158.15	208.65	118.21	125.20	25.89	112.75
1888	290.56	54.23	22.01	49.52	63.42	139.00	201.55	117.53	121.31	23.32	132.17
1889	246.55	65.64	25.72	50.08	66.10	142.05	197.47	127.62	138.98	22.60	145.19
1890	205.74	64.97	22.96	52.50	54.98	154.71	226.20	134.24	107.55	22.45	140.73
1891	158.68	58.40	22.81	54.04	53.09	145.51	180.57	125.49	123.97	22.24	123.98

TABLE 68.—*Relative prices of commodities in Hamburg—Calculations of Dr. Seibeer*—Continued.

[1847 to 1850=100.]

Year.	64. Redwood.	65. Mahogany.	66. Cane.	67. Palm oil.	68. Ivory.	64–68. Total.	69. Coal.	70. Pig iron.	71. Bar iron.	72. Steel.	73. Lead.
1851	96.05	110.50	106.01	86.80	98.97	99.94	87.79	75.00	80.91	91.43	100.82
1852	94.65	110.50	105.23	89.18	106.08	99.95	87.60	78.23	82.94	102.90	90.95
1853	98.60	107.67	116.47	110.91	122.13	115.28	113.86	106.45	112.13	89.41	117.11
1854	96.74	109.59	101.94	146.47	132.60	118.17	131.28	140.32	128.18	115.50	129.28
1855	102.56	89.32	106.59	130.98	145.32	121.02	120.79	127.42	114.85	144.26	141.28
1856	103.02	109.44	116.28	124.66	151.63	123.95	119.39	123.39	121.82	130.10	130.59
1857	131.40	127.95	172.29	136.80	179.32	140.32	114.24	118.55	121.21	128.21	127.96
1858	89.77	93.97	158.72	116.59	156.55	112.76	100.32	92.74	102.42	112.60	112.99
1859	97.91	108.49	133.72	127.50	151.32	115.74	99.36	87.90	102.42	108.08	121.38
1860	84.42	123.84	121.90	122.91	149.28	120.28	96.50	87.90	98.48	102.56	116.28
1861	73.49	107.12	119.38	123.92	133.06	117.19	101.27	83.06	93.03	103.79	114.14
1862	66.28	88.22	136.48	115.38	136.80	117.28	101.91	84.68	95.15	107.80	109.05
1863	61.63	126.58	172.09	98.23	134.99	116.87	95.87	98.39	98.48	125.53	108.72
1864	65.12	189.86	188.76	110.54	163.53	125.74	102.42	101.61	111.82	108.92	112.34
1865	72.79	127.67	172.87	110.36	139.23	146.11	103.94	99.19	108.79	108.70	107.63
1866	79.07	120.55	164.15	118.24	153.56	117.90	103.69	95.16	106.06	102.01	112.17
1867	84.19	90.68	134.88	122.46	146.83	114.35	101.84	93.55	102.12	88.29	104.61
1868	96.28	72.88	142.25	125.39	146.15	116.75	99.05	90.32	94.55	89.19	111.18
1869	82.79	67.95	140.31	126.86	146.98	122.10	96.19	88.71	93.64	90.19	108.55
1870	64.65	101.92	144.19	120.81	148.40	120.56	96.38	93.55	99.39	91.42	112.34
1871	59.77	94.52	138.89	157.47	138.52	120.22	98.86	97.58	107.68	108.44	107.73
1872	54.34	124.11	178.04	116.25	164.36	130.25	138.14	168.55	139.39	123.23	147.20
1873	57.20	117.72	193.22	113.41	204.32	134.32	174.57	193.01	172.98	106.13	172.92
1874	85.74	101.92	191.28	108.16	197.95	136.74	140.94	137.90	118.54	83.83	133.57
1875	78.22	92.33	182.75	107.39	219.95	132.11	114.88	110.22	119.29	73.62	127.66
1876	64.57	103.93	163.31	112.99	206.45	129.74	105.28	108.60	103.64	101.11	131.36
1877	60.78	99.27	169.90	118.73	193.16	130.29	97.90	96.51	94.55	89.56	120.94
1878	61.47	96.21	159.04	118.18	201.56	125.61	88.68	86.02	88.28	85.56	112.17
1879	64.81	85.39	153.55	104.89	166.54	123.34	83.28	76.88	79.60	69.97	103.35
1880	76.20	94.34	176.78	99.59	162.74	122.92	83.66	87.90	83.59	70.18	101.45
1881	66.24	90.91	179.17	96.30	175.74	122.60	80.55	79.84	80.86	69.03	85.39
1882	60.27	98.26	182.24	97.22	190.24	122.47	80.48	83.33	88.79	68.53	83.17
1883	57.95	102.24	181.17	105.64	202.13	120.17	80.42	80.11	82.37	64.79	78.89
1884	51.59	79.45	166.09	100.67	208.94	117.90	79.59	77.55	76.67	68.89	68.75
1885	43.18	73.15	172.06	83.32	194.77	116.39	78.26	69.09	72.02	63.94	70.97
1886	46.01	77.03	165.41	69.34	183.48	115.45	75.52	64.11	68.59	58.21	71.71
1887	46.86	79.77	169.35	65.35	180.32	116.59	74.06	67.74	70.00	48.51	68.82
1888	48.76	87.08	150.23	61.30	184.70	116.41	74.32	65.86	71.11	53.14	68.69
1889	44.50	100.05	151.71	68.16	181.00	118.82	83.92	82.93	82.58	66.35	102.69
1890	43.84	111.42	149.45	71.45	200.08	119.35	100.89	86.42	86.36	65.69	133.94
1891	54.15	87.35	151.61	73.62	205.45	113.56	103.75	75.27	84.70	71.23	124.31

TABLE 68.—*Relative prices of commodities in Hamburg—Calculations of Dr. Soetbeer—* Continued.

[1847 to 1850=100.]

Year.	74. Zinc.	75. Tin.	76. Copper.	77. Quicksilver.	78. Sulphur, raw.	79. Saltpetre, raw, Chile.	80. Salt.	81. Lime.	82. Cement.	69–82. Total.
1851	93.24	100.49	100.94	87.96	110.76	107.73	89.33	92.59	120.78	95.70
1852	107.53	108.73	106.66	74.16	100.00	114.75	66.67	92.59	125.97	95.76
1853	135.33	154.08	129.83	59.76	97.31	132.79	77.33	87.04	116.88	109.24
1854	142.47	148.09	135.21	52.24	79.37	132.08	70.67	92.59	125.97	115.95
1855	145.37	144.38	135.38	47.87	82.96	177.52	70.67	92.59	122.08	119.10
1856	157.72	166.18	139.71	46.29	78.92	120.37	84.00	92.59	122.08	116.65
1857	181.85	185.92	132.90	49.93	138.57	138.17	90.67	92.59	123.38	124.58
1858	150.58	152.55	119.50	48.79	122.87	116.39	84.00	92.59	118.18	109.04
1859	134.36	170.71	112.63	46.24	127.35	107.49	86.67	103.70	111.69	108.57
1860	127.99	172.77	118.74	53.01	152.47	100.23	80.00	100.00	114.29	108.66
1861	115.83	153.03	111.65	52.07	116.59	92.74	82.67	98.15	115.58	102.40
1862	115.06	148.95	109.98	53.10	103.14	108.20	81.33	96.30	111.69	101.88
1863	115.06	161.95	103.87	52.00	92.38	104.45	72.00	101.85	110.39	102.92
1864	138.80	139.18	113.33	61.39	109.87	114.29	48.00	96.30	105.19	104.53
1865	134.94	123.90	103.63	53.49	100.90	97.42	44.00	92.59	106.49	98.93
1866	141.12	112.28	108.76	50.56	101.79	90.16	38.67	85.19	103.90	96.54
1867	138.61	116.14	97.59	53.53	95.07	84.78	38.67	83.33	107.79	93.28
1868	129.34	120.41	89.39	49.87	96.41	94.38	46.67	77.78	96.10	91.76
1869	133.20	150.90	90.44	53.42	108.97	118.50	42.67	79.63	93.51	96.33
1870	124.71	160.97	87.89	59.15	112.11	122.48	53.33	87.04	94.81	99.68
1871	115.51	172.57	90.47	72.16	100.30	121.31	65.33	74.07	93.94	101.85
1872	147.68	194.39	110.50	86.12	95.52	115.85	60.89	74.07	101.30	121.63
1873	179.02	185.73	111.36	101.24	86.40	113.04	80.89	155.56	135.50	140.60
1874	148.26	132.82	103.37	155.87	103.14	93.52	80.89	96.30	119.91	116.70
1875	154.89	124.00	106.49	94.05	102.99	90.32	62.67	102.47	111.26	107.49
1876	163.77	115.17	105.61	83.58	89.69	90.24	70.22	110.49	109.09	106.27
1877	143.95	101.98	99.52	64.97	88.64	108.35	62.67	106.79	107.79	98.87
1878	147.04	91.34	88.17	53.83	92.08	116.16	56.00	110.49	102.16	94.14
1879	110.17	91.70	79.00	48.57	70.40	110.38	50.22	104.94	102.60	84.28
1880	128.22	111.37	76.66	51.91	88.42	118.97	50.44	87.04	96.75	88.33
1881	116.86	117.25	78.59	49.44	93.05	112.02	46.67	82.72	95.89	84.87
1882	117.05	124.76	83.29	48.27	99.78	101.76	50.44	96.30	91.99	86.99
1883	117.21	123.70	79.16	42.41	87.97	87.31	46.44	93.21	96.97	82.93
1884	110.20	112.20	72.60	44.78	84.01	75.14	43.78	93.83	93.72	78.69
1885	80.89	105.20	64.50	44.86	102.39	79.93	38.67	77.78	90.69	74.23
1886	87.77	105.92	60.08	44.10	79.90	76.03	36.00	71.30	88.10	70.52
1887	90.28	115.66	56.01	54.83	70.70	75.33	43.56	75.31	86.15	72.50
1888	96.04	130.98	78.23	55.44	73.92	74.24	44.89	70.99	78.79	75.57
1889	104.15	112.55	64.07	62.57	75.34	71.70	39.11	63.58	88.10	78.55
1890	130.57	110.71	64.05	71.31	80.49	62.53	26.22	63.58	86.80	83.54
1891	146.11	109.32	67.23	57.79	89.01	65.03	34.89	69.75	87.66	84.72

TABLE 68.—*Relative prices of commodities in Hamburg—Calculations of Dr. Soetbeer*—Continued.

[1847 to 1850 = 100.]

Year.	83. Cotton.	84. Wool.	85. Flax.	86. Hemp.	87. Silk.	88. Cordage.	89. Rags.	83–89. Total.	90. Guano.	91 India rubber.
1851	95.53	106.48	124.68	105.26	98.71	104.59	95.49	104.39	107.03	146.67
1852	90.14	101.77	122.59	105.85	95.20	114.23	105.29	105.01	96.94	106.62
1853	98.92	99.10	84.05	101.67	101.72	104.78	119.80	101.43	108.26	147.59
1854	81.36	104.83	78.73	140.94	84.68	159.18	131.76	111.64	121.71	148.09
1855	81.57	95.40	77.97	109.11	81.17	169.48	110.39	103.58	119.27	102.51
1856	97.74	109.48	90.44	95.49	74.66	120.79	111.57	100.02	118.96	96.06
1857	113.47	120.95	111.84	97.99	98.74	123.03	119.22	112.18	135.17	85.88
1858	104.42	113.06	118.35	84.63	88.21	110.21	106.27	103.59	125.08	83.74
1859	98.49	115.59	116.52	84.13	97.27	111.05	109.80	104.69	110.70	152.35
1860	91.92	120.00	142.03	90.39	97.62	110.77	108.43	108.74	123.85	170.43
1861	115.30	107.61	147.47	89.22	91.17	110.11	115.10	110.85	116.51	111.16
1862	212.50	115.76	150.06	92.15	75.40	124.72	99.61	124.31	131.19	126.88
1863	335.99	110.83	166.46	108.52	93.03	133.52	114.51	151.84	122.94	118.57
1864	391.54	92.77	142.72	105.01	94.89	121.54	131.37	154.26	119.57	101.02
1865	210.24	99.07	111.39	78.86	102.42	113.01	109.61	117.80	124.16	103.21
1866	235.40	91.92	178.61	95.66	107.10	115.92	120.00	134.94	119.57	147.87
1867	181.47	82.41	177.53	93.23	127.91	124.53	125.10	130.31	103.36	124.96
1868	139.66	86.83	177.03	105.68	133.26	132.30	115.49	127.18	105.50	131.99
1869	172.84	79.76	171.46	109.19	128.60	128.65	123.14	130.53	122.94	100.84
1870	154.47	84.51	159.87	97.58	117.51	123.97	122.16	122.87	109.79	131.04
1871	132.51	91.06	138.84	112.36	117.45	128.87	113.53	119.23	119.47	145.18
1872	150.16	107.53	135.49	107.60	129.07	131.65	97.45	122.79	125.38	165.10
1873	137.97	94.57	120.59	101.20	129.74	145.38	107.58	119.58	73.50	153.04
1874	132.99	83.62	121.62	110.55	97.94	139.54	103.33	112.80	72.68	125.04
1875	117.98	87.14	132.78	100.95	86.32	140.67	114.44	111.47	65.95	119.77
1876	99.75	75.07	125.55	95.27	102.08	132.87	108.17	105.54	78.68	122.16
1877	100.13	75.99	150.49	102.48	109.09	124.78	95.36	108.33	64.98	111.69
1878	99.89	83.91	129.24	87.25	88.40	127.12	100.52	102.33	74.31	116.60
1879	101.78	79.69	153.50	78.89	74.82	108.40	94.25	98.76	57.80	126.10
1880	109.91	79.04	95.33	79.49	86.97	120.46	105.85	96.72	61.31	188.43
1881	98.98	80.08	127.08	83.76	82.54	115.98	106.60	99.29	60.55	180.29
1882	100.38	72.34	118.04	83.15	78.33	115.98	97.45	95.10	81.24	171.43
1883	90.10	68.14	128.18	84.73	86.09	118.18	95.52	95.93	71.56	182.63
1884	92.41	55.72	146.48	90.49	80.04	121.77	92.25	97.02	61.11	136.77
1885	91.97	56.21	156.33	87.05	75.13	121.18	83.37	95.89	56.42	138.62
1886	86.62	52.01	139.60	87.25	69.52	116.39	76.96	89.76	50.41	106.00
1887	82.88	51.26	102.24	79.92	67.73	116.50	69.38	81.42	47.91	170.40
1888	91.75	42.44	94.93	77.15	74.44	124.19	70.26	82.17	40.57	163.74
1889	92.12	46.05	94.94	86.87	94.15	128.32	80.88	89.05	51.63	139.91
1890	89.56	48.50	93.41	79.50	59.11	123.64	79.74	81.92	53.11	167.29
1891	87.32	47.38	78.65	79.52	59.28	122.80	87.88	80.40	48.89	141.67

TABLE 68.—*Relative prices of commodities in Hamburg—Calculations of Dr. Soetbeer*—Concluded.

[1847 to 1850=100.]

Years.	92. Gutta-percha.	93. Rosin.	94. Potash, prussiate and chromate of.	95. Pitch.	96. Potash, carbonate of.	97. Soda.	98. Tallow candles	99. Tar.	100. Wax.	90-100. Total.
1851	89.42	101.38	79.41	139.71	87.35	91.46	88.84	98.27	114.21	103.98
1852	91.28	89.66	78.53	132.35	76.62	87.49	84.96	89.61	111.91	95.09
1853	111.32	117.24	85.05	114.71	82.60	89.77	96.12	86.58	116.92	105.17
1854	126.33	124.83	82.98	144.85	107.09	85.90	109.50	148.92	113.76	119.44
1855	88.21	108.97	84.86	137.87	112.96	82.77	111.16	145.89	111.46	109.63
1856	89.45	104.14	95.71	105.51	114.17	90.12	98.34	88.31	114.68	100.50
1857	104.44	121.38	98.61	100.00	128.14	110.72	100.58	87.88	115.26	108.01
1858	87.38	111.03	94.52	99.63	88.97	106.70	94.71	84.85	120.10	99.70
1859	158.03	115.17	116.51	116.18	93.22	104.87	97.92	97.40	107.92	115.57
1860	157.32	109.66	108.53	101.84	81.78	92.25	97.45	119.91	122.16	116.83
1861	141.44	174.48	94.45	140.81	91.80	83.17	93.77	159.31	109.27	119.65
1862	147.06	480.00	81.41	229.78	94.13	75.57	87.98	173.59	99.31	156.99
1863	188.12	542.07	84.83	234.93	96.25	73.24	77.20	131.17	105.66	161.36
1864	226.92	604.83	77.27	195.22	89.07	73.34	67.12	106.06	127.91	162.58
1865	173.95	299.31	67.87	123.16	88.36	77.31	66.70	91.34	116.27	121.06
1866	129.37	204.14	68.75	119.49	76.11	96.62	71.19	80.95	110.27	111.30
1867	151.43	200.69	61.05	103.68	76.21	90.12	72.02	84.41	121.53	108.13
1868	141.87	147.59	63.18	95.59	76.92	73.49	72.77	90.91	114.01	101.25
1869	101.99	126.21	61.06	123.90	79.05	70.01	71.19	101.75	120.97	98.17
1870	189.30	130.34	60.33	149.26	88.66	66.14	68.75	114.72	114.97	111.21
1871	160.47	198.39	80.31	107.48	94.50	81.03	68.85	118.47	118.12	117.48
1872	155.67	220.69	110.47	128.31	104.35	124.53	66.95	136.36	76.15	128.54
1873	160.73	189.89	103.28	134.56	111.71	97.17	68.78	146.75	71.17	119.14
1874	153.49	155.63	77.58	151.35	94.09	84.81	68.76	146.61	104.25	112.21
1875	116.57	130.57	67.54	134.56	87.89	75.27	64.03	130.16	93.85	98.74
1876	178.46	131.72	56.40	110.66	85.22	79.25	63.82	123.67	90.16	101.78
1877	208.98	133.56	54.03	110.66	80.06	72.10	64.16	120.20	77.49	99.80
1878	213.25	118.16	50.48	107.97	73.62	62.81	61.02	104.33	87.05	97.24
1879	173.45	108.74	66.14	91.18	61.00	60.03	58.24	105.48	74.13	90.21
1880	149.74	124.14	67.26	101.84	61.39	65.04	52.69	105.56	70.08	95.23
1881	162.50	140.92	68.24	96.69	65.96	59.83	50.77	105.34	72.69	94.89
1882	150.36	139.08	73.72	119.67	72.23	59.04	50.98	109.52	62.84	99.10
1883	142.11	120.80	63.29	109.56	68.67	54.92	54.76	109.38	71.49	95.38
1884	149.06	99.54	42.30	109.13	64.93	51.74	55.33	91.85	71.22	84.82
1885	135.24	92.64	56.82	69.73	58.35	43.94	53.66	127.92	61.52	81.35
1886	127.77	91.95	52.60	74.33	61.10	38.58	46.42	103.75	53.38	78.75
1887	123.76	87.24	55.85	69.73	60.43	38.93	41.50	97.47	57.01	77.30
1888	121.16	85.63	52.09	68.50	57.69	45.18	39.20	105.34	58.34	74.31
1889	181.24	103.79	53.40	108.39	45.97	44.98	40.64	130.09	50.43	86.41
1890	188.50	110.57	57.83	109.13	51.18	49.45	42.67	128.28	50.83	91.70
1891	161.71	115.98	56.36	98.53	59.31	51.99	41.63	111.18	50.26	85.06

TABLE 69.—*Relative prices of commodities in England—Calculations of Dr. Soetbeer.*

[1847 to 1850=100.]

Year.	1. Cotton yarn.	2. Piece goods, plain.	3. Piece goods, printed.	4. Stockings and socks.	5. Thread for sewing.	6. Glass, common bottles.	7. Linen yarn.	8. Linen, plain.
1851	98.75	94.19	97.48	99.36	109.52	91.38	109.68	100.29
1852	98.04	93.87	96.57	90.96	116.40	90.17	103.53	98.86
1853	100.18	99.35	98.63	86.88	120.11	93.53	109.59	109.29
1854	97.50	91.94	96.11	80.89	120.11	98.45	115.93	113.00
1855	93.21	90.00	91.76	84.84	121.16	93.88	111.49	108.43
1856	94.82	92.90	92.91	77.83	114.81	95.43	118.10	102.43
1857	105.45	96.45	95.65	66.75	119.05	95.43	124.07	105.00
1858	102.59	93.55	93.14	81.91	123.28	95.78	118.37	104.86
1859	105.45	99.03	96.80	73.25	129.63	90.86	133.30	103.86
1860	107.14	99.68	96.34	75.54	124.34	88.79	125.34	103.14
1861	111.96	97.42	94.05	71.97	119.05	87.59	125.88	102.29
1862	142.59	118.06	104.58	81.02	143.39	86.90	123.53	97.71
1863	232.23	160.32	130.66	88.92	178.81	87.76	142.99	107.86
1864	257.14	186.77	144.62	103.82	189.42	86.29	161.99	119.86
1865	214.11	162.90	132.95	99.87	172.49	85.95	149.68	115.14
1866	211.25	164.19	135.24	105.99	177.78	87.33	153.39	117.57
1867	188.48	133.23	120.82	89.94	181.48	86.03	156.47	111.29
1868	180.98	118.39	110.53	84.46	178.31	85.60	153.03	107.14
1869	178.93	122.26	112.36	86.88	177.78	85.43	146.52	100.86
1870	168.93	114.52	108.70	86.50	175.66	86.12	130.50	102.14
1871	166.61	107.42	107.78	82.80	172.49	83.71	132.94	105.57
1872	168.48	113.23	112.59	90.19	184.13	84.57	148.42	106.14
1873	158.57	111.29	109.38	94.27	187.30	87.76	149.41	108.86
1874	140.98	103.87	107.32	90.32	186.77	89.74	137.29	111.43
1875	130.89	100.97	109.15	85.61	193.65	95.52	144.34	108.43
1876	117.77	91.29	102.62	83.95	193.65	96.12	141.36	102.00
1877	114.73	91.29	98.63	79.36	170.37	94.74	145.97	99.00
1878	111.34	89.03	95.65	82.55	166.67	92.33	142.62	102.86
1879	110.09	85.48	89.47	84.84	165.01	87.93	134.12	101.14
1880	118.30	88.06	86.73	83.44	167.72	87.07	128.96	105.43
1881	110.62	85.48	84.21	74.14	158.20	85.52	125.88	100.43
1882	115.71	87.42	85.35	79.11	164.02	82.33	124.07	98.43
1883	109.37	84.19	82.84	80.00	173.02	79.91	129.95	99.29
1884	109.29	79.68	82.38	79.62	178.31	80.17	126.24	94.57
1885	103.39	75.16	79.41	76.43	166.67	82.50	129.05	90.71
1886	96.79	71.29	72.77	70.45	158.20	81.81	127.78	85.43
1887	96.52	73.23	72.54	65.35	154.50	81.47	124.62	86.71
1888	97.68	73.23	70.48	66.50	155.03	80.86	131.04	79.57
1889	99.38	72.26	67.96	69.68	164.55	81.55	131.58	79.57
1890	102.41	74.19	70.48	69.55	175.13	79.91	122.90	77.43
1891	93.48	74.52	65.90	66.50	190.48	80.95	131.40	77.43

TABLE 69.—*Relative prices of commodities in England—Calculations of Dr. Soetbeer*—Concluded.

[1847 to 1850 = 100.]

Year.	9. Linen sail cloth and sails.	10. Woollen and worsted yarns.	11. Cloths, etc.	12. Flannels, etc.	13. Worsted stuffs.	14. Carpets, etc.	1-14. Total.
1851	96.75	103.94	84.88	94.84	82.05	108.82	97.98
1852	97.08	103.29	83.99	93.23	77.30	100.43	95.98
1853	117.42	107.15	89.26	97.99	87.81	91.30	100.61
1854	132.47	101.67	83.55	88.34	83.97	89.54	99.53
1855	117.42	97.99	89.95	102.21	79.30	94.14	98.27
1856	118.51	105.65	83.24	98.93	84.06	99.38	98.50
1857	113.20	118.10	83.24	107.31	85.81	101.97	101.25
1858	113.10	122.29	88.54	101.94	86.98	86.37	100.91
1859	125.11	133.93	99.49	102.88	91.99	95.25	105.77
1860	118.89	138.90	103.01	105.50	94.49	97.32	105.60
1861	128.68	128.93	101.95	119.30	100.08	92.57	105.84
1862	132.90	138.94	103.83	124.93	108.35	92.38	114.22
1863	136.15	157.98	117.24	131.30	100.75	95.90	133.45
1864	147.94	172.44	125.65	133.51	115.53	106.42	146.53
1865	137.77	172.49	128.93	131.03	114.86	111.04	137.80
1866	137.99	175.70	133.89	128.95	117.20	118.60	140.36
1867	139.39	159.52	140.18	124.26	121.37	122.21	133.91
1868	144.91	148.82	125.38	121.78	116.78	109.78	127.56
1869	153.68	152.93	124.38	118.50	121.20	112.43	128.15
1870	136.90	144.33	120.28	115.82	117.11	110.02	122.68
1871	140.04	143.30	128.32	117.63	117.03	111.35	122.64
1872	154.65	157.94	140.87	118.30	121.37	120.08	130.07
1873	151.19	159.44	140.22	121.31	101.09	119.19	128.52
1874	155.95	163.20	135.19	132.44	91.24	119.06	126.06
1875	155.41	165.08	133.69	123.79	88.81	114.13	124.96
1876	155.52	147.03	130.81	117.43	82.64	107.19	119.23
1877	148.38	137.44	122.16	117.83	79.47	97.22	114.04
1878	140.26	128.67	118.09	113.00	77.46	93.89	111.03
1879	126.52	114.29	109.06	111.19	74.29	88.93	105.93
1880	131.49	129.78	110.60	110.25	76.38	89.94	108.15
1881	129.98	111.42	111.32	101.74	75.46	88.77	103.08
1882	134.63	109.63	116.89	101.41	80.55	86.80	104.72
1883	126.95	100.17	130.98	99.33	82.97	87.11	104.72
1884	118.51	101.75	141.66	93.70	80.47	80.69	103.36
1885	117.21	103.51	137.59	87.67	78.05	79.40	100.48
1886	120.02	99.23	135.29	83.71	77.21	78.38	97.03
1887	119.16	101.54	136.94	82.24	74.04	74.86	95.98
1888	113.74	97.60	135.29	79.29	72.04	76.37	94.91
1889	119.59	98.29	138.61	78.08	73.46	77.85	96.60
1890	114.50	102.14	108.62	82.71	72.54	76.87	94.90
1891	115.91	96.88	105.92	83.24	72.37	76.62	95.11

TABLE 70.—*Summary of relative prices of commodities in Hamburg and England—Calculations of Dr. Soetbeer.*

[1847 to 1850=100.]

Year.	Products of agriculture, etc.	Animal and fish products.	Southern products.	Tropical products (exclusive of cotton).	Minerals and metals.	Textile materials.	Miscellaneous articles.	British articles of export.	Total.
1851	99.09	110.38	90.00	99.94	95.70	104.39	103.98	97.98	100.21
1852	110.71	106.68	95.33	99.95	95.76	105.01	95.09	95.98	101.69
1853	128.18	114.94	124.78	115.28	109.24	101.43	105.17	100.61	113.69
1854	150.49	121.12	112.91	118.17	115.95	111.64	119.44	99.53	121.25
1855	158.82	123.54	142.03	121.02	119.10	103.58	109.63	98.27	124.23
1856	149.03	127.61	155.95	123.95	116.65	100.02	100.50	98.50	123.27
1857	138.11	140.18	169.32	140.32	124.58	112.18	108.01	101.25	130.11
1858	119.92	127.02	120.69	112.76	109.04	103.59	99.70	100.91	113.52
1859	119.48	130.69	113.40	115.74	108.57	104.69	115.57	105.77	116.34
1860	133.75	133.75	120.36	120.28	108.66	108.74	116.83	105.60	120.96
1861	131.46	124.79	122.08	117.19	102.40	110.85	119.65	105.84	118.10
1862	126.80	127.19	113.93	117.28	101.88	124.31	156.99	114.23	122.05
1863	120.12	124.12	114.97	116.87	102.92	151.84	161.36	133.45	125.49
1864	117.89	129.21	109.41	125.74	104.53	154.26	162.58	146.53	129.28
1865	126.48	135.23	114.01	146.11	98.93	117.80	121.06	137.80	122.63
1866	137.64	135.64	126.30	117.90	96.54	134.94	111.30	140.36	125.85
1867	146.38	132.68	126.44	114.35	93.28	130.31	108.13	133.91	124.44
1868	141.59	133.48	120.75	116.75	91.76	127.18	101.25	127.56	121.99
1869	132.40	143.25	115.58	122.10	96.33	130.52	98.17	128.15	123.28
1870	131.23	139.82	118.57	120.56	99.68	122.87	111.21	122.68	122.47
1871	144.76	144.14	122.99	120.22	101.85	119.23	117.48	122.64	127.03
1872	144.17	155.82	125.36	130.25	121.63	122.79	128.54	130.07	135.62
1873	146.21	156.72	132.15	134.32	140.60	119.58	119.14	128.52	138.28
1874	150.99	157.76	145.02	136.74	116.70	112.80	112.21	126.06	136.20
1875	138.16	158.59	131.35	132.11	107.49	111.47	98.74	124.98	129.85
1876	141.06	155.79	128.69	129.74	106.27	105.54	101.78	119.23	128.33
1877	145.34	152.51	140.55	130.29	98.87	108.33	99.80	114.04	127.70
1878	132.50	141.53	134.34	125.61	94.14	102.33	97.24	111.03	120.60
1879	132.92	137.60	139.10	123.34	84.28	98.76	90.21	105.93	117.10
1880	138.11	147.30	154.65	122.92	88.83	96.72	95.23	108.15	121.89
1881	137.50	151.21	146.57	122.60	84.87	99.29	94.89	103.08	121.07
1882	138.45	155.17	139.23	122.47	86.99	95.10	99.10	104.72	122.14
1883	143.33	156.40	142.38	120.17	82.93	95.93	95.38	104.72	122.24
1884	123.85	150.26	120.16	117.90	78.69	97.02	84.82	103.36	114.25
1885	110.75	140.45	123.78	116.39	74.23	95.89	81.35	100.48	108.72
1886	101.31	133.53	122.44	115.45	70.52	89.76	78.75	97.03	103.90
1887	96.28	129.93	121.81	116.59	72.50	81.42	77.30	95.98	102.02
1888	98.18	128.97	120.09	116.41	75.57	82.17	74.31	94.91	102.94
1889	102.06	130.95	127.57	118.82	78.55	89.05	86.41	96.60	106.13
1890	107.53	129.85	138.61	119.35	83.54	81.92	91.70	94.90	108.13
1891	119.88	131.66	139.99	113.56	84.72	80.40	85.06	95.11	108.19

Comparison between the foregoing table and results for the United States is rendered difficult in the base line. A reduction to the basis of 1860 would, however, involve a large expenditure of labor. But the purpose of such a reduction can be sufficiently met by transposing Dr. Soetbeer's summary to the basis of 1860, by dividing each relative price by the price of that year. The results of such a calculation are shown in the following table, 71:

TABLE 71.—*Relative prices in Hamburg, by groups of articles.*

[1860=100.]

Year.	Products of agriculture. (20)	Animal and fish products. (22)	Southern products. (7)	Tropical products. (19)	Minerals and metals. (14)	Textile materials. (7)	Miscellaneous. (10)	British articles of export. (14)	Total. (114)
1851	74.0	82.5	74.8	83.1	88.1	96.0	89.0	92.8	82.8
1852	82.8	79.8	79.2	83.1	88.1	96.6	81.4	90.9	84.1
1853	95.8	85.9	103.7	95.8	100.5	93.3	90.0	95.3	94.0
1854	112.5	90.6	93.8	98.2	106.7	102.7	102.2	94.3	100.2
1855	118.7	92.4	118.0	100.6	109.6	95.3	93.8	93.1	102.7
1856	111.4	95.4	129.6	103.1	107.4	92.0	86.0	93.3	101.9
1857	103.3	104.8	140.7	116.7	114.7	103.2	92.5	95.9	107.5
1858	89.7	95.0	100.3	93.7	100.3	95.3	85.3	95.6	93.8
1859	89.3	97.7	94.2	96.2	99.9	96.3	98.9	100.2	96.2
1860	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1861	96.3	93.3	101.4	97.4	94.2	101.9	102.4	100.2	97.6
1862	94.8	95.1	94.7	97.5	93.8	114.3	134.4	108.2	101.4
1863	89.8	92.8	95.5	97.2	94.7	139.6	138.1	126.4	103.7
1864	88.1	96.6	90.9	104.5	96.2	141.9	139.2	138.8	106.9
1865	94.6	101.1	94.7	96.5	91.0	108.3	103.6	130.5	101.4
1866	102.9	101.4	104.9	98.0	88.8	124.1	95.3	132.9	104.0
1867	109.4	99.2	105.1	95.1	85.8	119.8	92.6	126.8	102.9
1868	105.9	99.8	100.3	97.1	84.4	117.0	86.7	120.8	100.8
1869	99.0	107.1	96.0	101.5	88.7	120.0	84.0	121.4	102.0
1870	98.1	104.2	98.5	100.2	91.7	113.0	95.2	116.2	101.6
1871	108.2	107.8	102.2	100.0	93.7	109.6	100.6	116.1	105.0
1872	107.8	116.5	104.2	108.3	111.9	112.9	110.0	123.2	112.1
1873	109.3	117.2	109.8	111.7	129.4	110.0	102.0	121.7	114.3
1874	112.9	118.0	120.5	113.7	107.4	103.7	96.0	119.4	112.6
1875	103.3	118.6	109.1	109.8	98.9	102.5	84.5	118.3	107.3
1876	105.5	116.5	106.9	107.9	97.8	97.1	87.1	112.9	106.1
1877	108.7	114.0	116.8	108.3	91.0	99.6	85.4	108.0	105.6
1878	99.1	105.8	111.6	104.4	86.6	94.1	83.2	105.1	99.7
1879	99.4	102.9	115.6	102.5	77.6	90.8	77.2	100.3	96.8
1880	103.3	110.1	128.5	102.2	81.3	88.9	81.5	102.4	100.8
1881	102.8	113.1	121.8	101.9	78.1	91.3	81.2	97.6	100.1
1882	103.5	116.0	115.7	101.8	80.1	87.5	84.8	99.2	101.0
1883	107.2	116.9	118.3	99.9	76.3	88.2	81.6	99.2	101.0
1884	92.6	112.3	99.8	98.0	72.4	89.2	72.6	97.9	94.4
1885	82.8	105.0	102.8	96.8	68.3	88.2	69.6	95.2	89.9
1886	75.7	99.8	101.7	96.0	64.9	82.5	67.4	91.9	86.0
1887	72.0	97.1	101.2	96.9	66.7	74.9	66.2	90.9	84.3
1888	73.4	96.4	99.8	96.8	69.5	75.6	63.6	89.9	84.2
1889	76.3	97.9	106.0	98.8	72.3	81.9	74.0	91.5	87.7
1890	80.4	97.1	115.2	99.2	76.9	75.3	78.5	89.9	89.4
1891	89.6	98.4	116.3	94.4	78.0	73.9	72.8	90.1	90.3

The final column gives the division of the total sum by 114. It is therefore directly comparable with the simple average of the 223 articles in our list for the United States. That in 1891 was 92.2, while in Hamburg it was 90.3.

It will not be forgotten that the foregoing table consists very largely of food and raw products, manufactures coming in for a much smaller share than in the United States list.

The grouping adopted by Soetbeer is quite distinct from that of our tables and renders a comparison of the groups out of the question. In view of the large range of Soetbeer's table a comparison on the basis of the prices of the same articles in the United States can not be made. There are too many articles in the Soetbeer list not included in the prices for the United States.

The Hamburg price figures have been subjected to several analyses along the line of Dr. Soetbeer's celebrated investigations. The purpose of other writers has been to discover, if possible, the results of such an analysis by the use of another base line, or by a grouping more in harmony with their own notions.

HAMBURG PRICES—CALCULATIONS OF DR. KRAL.

One of the most noticeable of such efforts is that of Dr. Franz Kral. (*a*) In his investigations of the value of money and the movement of prices he has taken as his starting point the year 1871, as he had in view especially the monetary condition of the German Empire. His calculations are somewhat more comprehensive than those of Dr. Soetbeer, and embrace as many as 265 articles. While we can not reproduce here the detailed results article by article, the summary of his work will prove of interest. Following the method of the Economist, Dr. Kral has not reduced his groups to averages, but leaves as his basis of comparison, in the aggregate, 26,500. We feel sure that the value of his table is much increased by reducing it to the basis of 100 throughout. The following table gives the substance of Dr. Kral's results:

TABLE 72.—*Relative prices in Hamburg, by groups of articles—Calculations of Dr. Kral.*

[1871=100.]

Year.	Vegetable food. (21)	Animal food. (8)	Total food. (29)	Table luxuries. (59)	Drugs and medicines. (5)	Raw materials. (182)	Half products of manufactures. (7)	Manufactures. (14)	Average of all relative prices. (265)
1845-1850	81.22	82.85	81.67	80.84	89.58	94.24	92.75	122.90	91.39
1851-1855	97.24	82.72	93.23	96.92	99.00	100.08	97.40	128.89	99.85
1856-1860	96.58	93.17	95.64	107.42	96.13	104.07	107.33	120.89	104.39
1861-1865	89.89	87.13	89.13	99.76	112.06	88.74	108.99	112.12	95.42
1866-1870	101.39	98.97	100.73	95.90	106.44	100.48	99.42	108.39	100.47
1871	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
1872	100.27	98.78	99.86	110.70	99.39	110.30	119.69	107.06	108.32
1873	101.51	107.21	103.10	117.35	98.72	113.23	125.85	118.08	112.85
1874	107.10	116.61	109.73	122.96	108.05	108.92	109.07	110.04	113.14
1875	100.96	116.36	105.21	114.91	104.07	107.13	108.69	113.68	108.34
1876	100.09	116.36	104.58	111.03	95.86	102.94	94.42	108.68	104.33
1877	101.85	108.16	103.59	113.34	97.06	97.97	88.00	103.66	101.69
1878	96.92	96.25	96.73	111.07	89.02	95.14	86.12	98.57	98.69
1879	97.28	98.57	97.63	109.57	91.45	91.04	77.98	94.69	95.43
1880	101.24	115.39	105.14	112.53	89.56	94.73	78.22	99.38	98.91
1881	103.03	138.00	112.68	110.36	94.49	92.77	78.86	98.13	98.48
1882	100.01	122.77	106.29	103.50	91.46	94.50	77.62	98.19	98.95
1883	93.93	123.13	101.92	101.58	87.14	92.05	77.79	101.75	98.09
1884	86.83	112.09	93.80	94.34	91.61	88.50	76.61	98.98	99.37

a Geldwert und Preisbewegung im deutschen Reiche, 1871-1884, Jena, Fischer, 1887, 112 pp.

The foregoing table extends simply to 1884. It has not been deemed necessary to extend it, inasmuch as it embodies rather a rearrangement of matters already considered than a new principle.

A glance at the foregoing table reveals the fact that in 1884 there was a decrease in price in all groups as compared with 1871. An interesting comparison may be made of the maximum and minimum prices since 1871.

They occurred as follows:

Group.	Maximum.	Minimum.
I.—Food, vegetable	1874	1884
animal	1881	1878
II.—Luxuries (for the table)	1874	1884
III.—Drugs	1874	1883
IV.—All other raw materials	1873	1884
V.—Half products	1873	1882
VI.—Manufactures	1873	1879
Total	1873	1884

If we consider the final year 1884, we observe an increase as against 1871 only in the sub-group, animal food. In the main group, food, this is eliminated. While the average is 90.57, the range of variation is all the way from 96.99 in the group, manufactures, to 78.61 in the group, half products of manufactures. The important group, raw materials, is slightly below the average.

The grouping adopted by Dr. Kral differs from that of Soetbeer, and we can not make a comparison of the groups. Soetbeer's tables, including 114 articles, had as the aggregate relative price in 1871, 127.03, and in 1884, 114.25. If we make the former 100, then the relative price of 1884 becomes 89.9, which is quite close to the figures 90.6 given in the preceding table for the year 1884. It would appear that no material change in the result has been obtained by broadening the basis of the calculations.

HAMBURG PRICES—CALCULATIONS OF PROF. CONRAD.

An important analysis of the Hamburg figures has been made by Prof. Johannes Conrad, of Halle. In his periodical, Jahrbücher für Nationalökonomie und Statistik, he has published from time to time articles upon the movements of prices based upon the reports of prices by the Hamburg and other offices. From the last article (*a*) we extract what follows, adding, however, that we are indebted to the courtesy of Prof. Conrad for the figures for 1890 and 1891, which have not as yet been published.

The marked feature of this work is the number and variety of combinations which have been produced. Prof. Conrad has selected 47 leading articles from the Hamburg list and calculated the relative

a Vol. 1 of 1891, p. 913.

prices on the basis of 1847 to 1870 as 100. His results are given in the following table:

TABLE 73.—*Relative prices in Hamburg of certain articles at certain periods—Calculations of Prof. Conrad.*

[1847 to 1870=100.]

Number.	Article.	1847 to 1870.	1871 to 1880.	1881 to 1885.	1886.	1887.	1888.	1889.
1	Coffee (Brazil)	100.00	155.13	96.11	97.16	156.81	134.77	161.54
2	Cocoa	100.00	116.53	137.35	124.82	131.52	125.85	117.30
3	Tea	100.00	86.57	69.51	66.66	58.56	67.30	66.94
4	Sugar, raw	100.00	109.16	85.38	48.94	51.30	60.83	84.12
5	Currants	100.00	89.50	83.29	87.19	89.62	70.07	63.29
6	Raisins	100.00	99.51	97.76	88.17	71.86	69.73	71.74
7	Almonds	100.00	110.91	111.77	101.77	104.92	101.43	114.63
8	Pepper	100.00	140.35	175.24	213.26	189.58	207.84	184.76
9	Cocoanut oil	100.00	89.13	74.83	66.32	64.11	58.51	58.42
10	Palm oil	100.00	100.45	83.90	60.19	56.74	52.94	59.07
11	Indigo	100.00	111.41	101.26	88.53	85.60	84.10	95.23
12	Mahogany	100.00	92.56	82.16	71.26	73.80	80.05	92.14
13	Cotton	100.00	81.06	65.01	59.35	56.79	62.65	69.14
14	Silk	100.00	102.71	80.79	69.83	68.03	61.63	79.69
15	Flax	100.00	102.57	106.41	109.86	80.46	61.20	61.46
16	Hemp	100.00	98.01	86.19	87.61	80.26	83.17	95.65
17	Rice	100.00	81.43	71.07	62.78	64.93	63.78	67.69
18	Wheat	100.00	104.38	85.30	68.77	66.58	65.85	65.21
19	Rye	100.00	106.26	95.74	69.09	62.95	67.09	67.71
20	Barley	100.00	127.79	107.52	94.42	79.00	57.52	62.01
21	Oats	100.00	109.97	99.04	89.21	75.14	66.53	80.46
22	Hops	100.00	150.51	176.20	105.77	98.31	34.33	95.29
23	Clover seed	100.00	115.02	107.38	93.16	87.72	92.09	91.77
24	Rape-seed	100.00	97.88	90.46	80.72	74.02	76.48	82.31
25	Rape-seed oil	100.00	85.84	77.57	61.00	64.19	69.30	75.87
26	Linseed oil	100.00	90.54	74.93	65.10	62.87	57.56	63.42
27	Calfskins	100.00	103.00	86.70	80.96	72.99	56.44	52.71
28	Bristles	100.00	155.22	172.66	154.17	165.86	88.18	89.15
29	Horsehair	100.00	103.15	97.19	85.09	88.95	80.01	83.10
30	Wax	100.00	76.98	60.66	60.96	50.89	50.85	44.14
31	Tallow	100.00	89.74	86.30	61.96	60.95	57.40	67.79
32	Fish oil	100.00	82.17	80.24	57.36	54.86	52.58	54.13
33	Butter	100.00	134.16	129.75	113.09	112.62	72.56	78.59
34	Lard	100.00	86.92	87.79	59.37	64.22	78.70	78.77
35	Herrings	100.00	121.94	125.30	99.25	86.83	94.40	91.76
36	Iron, pig	100.00	117.71	79.02	64.85	68.68	66.21	84.29
37	Zinc, pig	100.00	112.76	84.97	68.78	70.75	58.61	56.99
38	Tin	100.00	96.32	85.04	77.23	84.23	95.90	83.67
39	Copper	100.00	88.02	68.54	54.46	50.76	75.26	57.63
40	Lead	100.00	112.19	69.11	64.02	77.58	89.53	116.39
41	Quicksilver	100.00	129.54	73.28	70.33	87.45	94.19	102.33
42	Coal and coke	100.00	109.88	77.78	74.07	67.90	69.14	80.25
43	Saltpeter	100.00	96.71	82.84	68.21	67.58	66.53	84.29
44	Bar iron (English)	100.00	113.53	73.26	66.91	59.21	67.74	75.64
45	Cotton yarn	100.00	115.60	96.62	116.54	118.74	126.58	114.62
46	Woollen and half-woollen yarn	100.00	101.43	74.84	65.67	66.85	64.46	64.06
47	Linen yarn	100.00	80.55	95.28	72.65	79.66	120.62	115.60
	Average	100.00	106.01	93.83	82.82	81.18	77.86	82.73

This table brings out admirably the fact of the fall in prices in recent years. In the period 1871 to 1880, which immediately followed the period of comparison, there were twenty-eight articles, or more than half, whose relative prices exceeded 100. Since 1880 the number is much fewer, being from 1881 to 1885, eleven; in 1886, eight; in 1887, seven; in 1888, six; and in 1889, eight. A study of the individual quotations makes the fact all the more marked.

Prof. Conrad does not give the average of his relative prices. We have added it to the table.

But these comparisons are carried still further for twenty-two articles. They are presented in the following tables:

TABLE 74.—*Average prices of certain articles in Hamburg for various periods—Calculations of Prof. Conrad.*

[NOTE.—The prices in American money have been obtained from the American figures in Table 66, and are not reduced from the German figures here given.]

Year.	Coffee.		Cocoa.		Tea.		Pepper.		Rice.	
	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1847-1880	54.74	$0.128	53.16	$0.115	146.54	$0.317	41.26	$0.088	12.32	$0.027
1847-1867	46.82	.111	49.08	.106	152.43	.329	36.45	.079	13.35	.029
1868-1872	52.50	.120	49.74	.108	149.94	.323	47.31	.102	10.98	.024
1872-1874	80.92	.183	50.97	.110	142.08	.306	68.47	.148	11.17	.024
1875-1877	81.87	.187	67.66	.133	133.93	.289	46.95	.101	10.07	.022
1878-1880	64.65	.154	81.53	.176	118.60	.256	38.30	.083	10.54	.023
1871-1880	73.70	.170	63.30	.137	132.13	.285	51.58	.111	10.61	.023
1881-1885	45.66	.111	74.61	.156	106.08	.229	64.40	.139	9.26	.020
1886	46.16	.107	68.89	.149	101.73	.220	79.61	.172	8.18	.018
1887	74.45	.166	71.44	.154	89.37	.193	69.67	.150	8.46	.018
1888	64.03	.146	68.36	.148	102.72	.223	76.38	.173	8.31	.018
1889	76.75	.172	63.72	.138	102.17	.221	67.90	.147	8.73	.019
1890	81.80	.186	66.05	.143	99.23	.214	56.66	.122	8.81	.019
1891	76.53	.177	71.90	.155	107.37	.232	43.70	.094	9.08	.020

Year.	Sugar.		Cotton.		Silk.		Indigo.		Saltpetre.	
	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1847-1880	26.98	$0.054	76.67	$0.166	1942.04	$4.185	652.05	$1.413	13.53	$0.031
1847-1867	23.76	.053	80.49	.174	1848.93	3.992	599.10	1.307	13.28	.031
1868-1872	25.56	.060	83.13	.180	2480.52	5.226	829.44	1.791	14.67	.032
1872-1874	24.63	.055	78.16	.169	2301.16	4.968	752.00	1.624	13.77	.030
1875-1877	26.77	.054	58.99	.127	1915.65	4.136	678.28	1.464	12.34	.027
1878-1880	20.23	.057	57.83	.125	1611.09	3.479	635.12	1.371	14.75	.032
1871-1880	24.10	.058	65.87	.142	1975.25	4.263	701.13	1.514	13.81	.030
1881-1885	19.62	.045	52.83	.114	1553.69	3.355	637.26	1.376	11.83	.025
1886	12.02	.026	48.23	.104	1343.06	2.900	557.20	1.203	9.74	.021
1887	12.60	.027	46.15	.100	1308.39	2.825	539.93	1.166	9.65	.021
1888	14.94	.026	50.91	.110	1185.23	3.105	529.30	1.130	9.50	.021
1889	20.66	.036	48.87	.111	1530.89	3.927	599.32	1.294	9.18	.020
1890	13.24	.030	49.86	.108	1107.76	2.465	463.82	1.001	8.01	.017
1891	15.09	.031	47.19	.105	1005.93	2.473	534.59	1.154	8.33	.018

Year.	Fish oil.		Palm oil.		Pig iron.		Zinc.	
	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*	
1847-1880	33.72	$0.055	37.71	$0.082	3.88	$0.008	20.63	$0.045
1847-1867	15.79	.060	36.69	.081	3.72	.008	19.88	.043
1868-1872	34.20	.053	42.30	.092	4.02	.009	20.22	.044
1872-1874	32.09	.050	36.86	.080	6.19	.014	24.60	.053
1875-1877	29.99	.047	37.00	.080	3.91	.009	23.96	.052
1878-1880	24.59	.038	35.20	.076	3.11	.007	19.96	.043
1871-1880	29.27	.046	37.87	.082	4.32	.010	22.35	.048
1881-1885	28.58	.045	31.63	.068	2.90	.006	16.85	.036
1886	20.43	.032	22.69	.049	2.38	.005	13.64	.029
1887	19.54	.030	21.39	.046	2.52	.005	14.03	.030
1888	18.73	.029	19.96	.043	2.43	.005	11.86	.032
1889	19.28	.030	22.27	.048	3.09	.007	11.68	.035
1890	16.42	.026	23.32	.051	3.20	.007	18.15	.044
1891	19.65	.031	24.06	.052	2.78	.006	19.04	.049

TABLE 74.—*Average prices of certain articles in Hamburg for various periods—Calculations of Prof. Conrad*—Concluded.

[NOTE.—The prices in American money have been obtained from the American figures in Table 66, and are not reduced from the German figures here given.]

Year.	Tin.		Copper.		Lead.		Coal.	
	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per pound.	Per 100 German pounds.	Per 2,240 pounds.
	Marks.		*Marks.*		*Marks.*		*Marks.*	
1847–1880	108.79	$0.235	87.92	$0.198	21.19	$0.046	.83	$4.028
1847–1867	109.05	.236	91.74	.210	20.46	.044	.81	3.953
1868–1872	128.04	.276	80.58	.174	21.51	.046	.84	4.026
1872–1874	136.96	.296	93.21	.201	26.98	.058	1.20	5.752
1875–1877	91.09	.196	89.31	.193	23.71	.051	.93	4.433
1878–1880	78.61	.170	69.88	.151	19.20	.041	.68	3.241
1871–1880	105.81	.228	83.50	.180	22.92	.050	.89	4.284
1881–1885	93.42	.202	65.02	.141	14.12	.031	.63	3.036
1886	84.84	.183	51.66	.112	13.08	.028	.60	2.873
1887	92.64	.200	48.15	.104	15.85	.034	.55	2.817
1888	105.35	.227	71.39	.145	18.29	.035	.56	2.827
1889	92.13	.195	54.66	.119	23.72	.040	.65	3.192
1890	88.60	.191	55.24	.119	29.63	.053	.79	3.826
1891	87.10	.189	57.69	.125	23.23	.049	.81	3.947

Year.	Wheat.		Rye.		Barley.		Oats.	
	Per 100 German pounds.	Per bushel.	Per 100 German pounds.	Per bushel.	Per 100 German pounds.	Per bushel.	Per 100 German pounds.	Per bushel.
	Marks.		*Marks.*		*Marks.*		*Marks.*	
1847–1880	11.13	$1.438	8.14	$0.984	10.79	$0.924	7.89	$0.539
1847–1867	10.89	1.411	7.83	.948	11.07	.834	7.74	.495
1868–1872	11.70	1.218	8.88	1.073	9.87	1.017	8.07	.553
1872–1874	12.36	1.602	8.74	1.057	9.14	1.155	8.33	.576
1875–1877	11.01	1.426	8.59	1.039	10.38	1.076	8.67	.589
1878–1880	10.75	1.393	7.86	.951	10.54	1.093	7.22	.499
1871–1880	11.43	1.482	8.49	1.022	10.53	1.092	8.05	.554
1881–1885	9.34	1.210	7.65	.925	8.86	.918	7.25	.501
1886	7.53	.976	5.52	.668	7.78	.807	6.53	.451
1887	7.51	.974	5.53	.669	6.51	.675	5.50	.380
1888	7.21	1.010	5.36	.711	4.74	.762	4.87	.351
1889	7.14	.926	5.41	.655	5.11	.733	5.89	.412
1890	7.40	.963	6.36	.769	5.53	.717	6.35	.445
1891	9.23	1.221	8.65	1.046	6.40	.750	6.70	.477

TABLE 75.—*Relative prices in Hamburg of certain groups—Calculations of Prof. Conrad.*

[In this table each group has been given its appropriate proportion in national consumption. 1867 to 1867=100.]

Year.	Group I.—Coffee, cocoa, tea, pepper, rice, sugar.	Group II.—Cotton, silk.	Group III.—Indigo, saltpetre, fish oil, palm oil.	Group IV.—Pig iron, zinc, tin, copper, lead.	Group V.—Coal.	Group VI.—Wheat, rye, barley, oats.	Groups I to VI.—Average of 22 articles.	Simple average of 218 articles included in Hamburg quotations
1871–1880	122.73	87.83	101.65	111.88	109.88	112.51	110.63	104.69
	[1847 to 1880=100.]							
1881–1885	78.64	71.77	89.30	75.05	75.90	89.21	84.18	83.69
1886	65.12	64.52	72.08	65.29	72.29	72.49	70.73	75.43
1887	88.10	62.05	70.22	65.23	66.27	64.76	66.27	75.57
1888	84.15	65.01	68.48	68.84	67.48	60.54	64.05	70.46
1889	104.08	67.64	71.17	77.91	78.31	64.65	70.43	74.79
1890	94.53	62.97	60.16	84.11	95.18	71.46	77.01	74.83
1891	94.19	59.03	66.43	75.17	97.59	87.31	83.45	78.19

TABLE 75—*Relative prices in Hamburg of certain groups—Calculations of Prof. Conrad*—Concluded.

[1871 to 1880=100.]

Year.	Group I.—Coffee, cocoa, tea, pepper, rice, sugar.	Group II.—Cotton, silk.	Group III.—Indigo, saltpetre, fish oil, palm oil.	Group IV.—Pig iron, zinc, tin, copper, lead.	Group V.—Coal.	Group VI.—Wheat, rye, barley, oats.	Groups I to VI.—Average of 22 articles.	Simple average of 318 articles included in Hamburg quotations.
1881-1885	72.23	79.75	89.41	69.11	70.79	87.33	80.41	81.60
1886	59.82	71.69	72.17	57.05	67.42	70.97	68.66	73.38
1887	80.91	68.95	70.30	60.07	61.80	63.40	64.33	73.52
1888	77.30	72.24	68.56	63.39	62.92	59.27	62.17	68.57
1889	95.59	75.16	71.25	71.74	73.03	63.06	68.38	72.76
1890	87.17	69.97	60.23	77.46	88.76	69.95	74.76	72.80
1891	86.51	65.60	66.51	69.23	97.01	85.48	83.93	70.61

This table of relative prices is singularly rich in varied and interesting comparisons. The first line gives the comparison of 1871 to 1880 with 1847 to 1867, and it appears that, with exception of silk and cotton, prices for the groups given were higher during the latter period. It is also true of the 22 articles as a whole, the average being that of all the articles and not of the six group averages. Furthermore the result for these 22 articles is substantially confirmed by that for the entire Hamburg list of 318 articles.

A further series of figures gives comparisons of the years 1881 to 1891 with the whole preceding period since 1847. It is quite characteristic that in all the columns there is but one place where the price of a group exceeds 100. Prices rule before 1885 about 15 per cent, and since that year about 30 per cent lower. An exception is to be noted for the year 1891, when the high price of the cereals advances prices considerably.

If we follow the details of a third series of figures, where the period 1871 to 1880 represents 100, we find similar results. Throughout the past decade prices have been noticeably lower than in that which preceded it. Thus in the year 1890 general prices are 25 per cent lower than in the decade 1871 to 1880.

GERMANY—PRUSSIAN STATISTICS.

Statistics of prices are annually published by the Royal Prussian Statistical Bureau. These "Prices of articles in 165 markets in Prussia" contain figures for some 17 articles of common use, exclusively food products. One of the noticeable features of these investigations is the large number of places for which prices are noted. The method of combination, therefore, as well as that of collection, deserves some notice.

The prices are reported at the close of each month to the statistical bureau by the local police authorities. These reports give prices for certain articles upon market days which vary in number in different places, while for other articles sold in stores a single quotation suffices. In the case of wheat, rye, barley, and oats report is made of the qualities styled good, medium, and poor, and also, if possible, of the amount offered for sale. Each day, when prices are reported, the highest and lowest are given.

The reported prices are wholesale prices; but since many of the 165

points are small towns, where an active wholesale trade can hardly be expected to exist, it seems probable that the prices reported approximate retail prices.

The statistical bureau publishes in each month the highest and lowest price, irrespective of quality. The towns are arranged by provinces, and the summary gives for each province the highest, lowest, and mean price. The last is calculated from the various figures for the towns, and is not the mean between the highest price for the province and the lowest. In Berlin a mean is calculated from all the reported prices; but this is the only exception to the rule stated. This gives thirteen monthly means for the various provinces and Berlin. A yearly mean per province is then obtained, and the mean for the state is the average of these results.

It is the yearly mean for the state of Prussia which is given in our Table 76.

TABLE 76.—*Prices of 17 commodities in Prussia from 1840 to 1891, with equivalents in United States money and measures.*

Year.	1. Wheat.		2. Rye.		3. Barley.		4. Oats.	
	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per bushel.
	Marks.		*Marks.*		*Marks.*		*Marks.*	
1840	16.70	$1.082	10.90	$0.659	9.80	$0.508	10.00	$0.345
1841	15.70	1.017	10.20	.617	8.30	.430	8.80	.304
1842	17.40	1.127	11.40	.689	9.10	.472	9.40	.325
1843	14.90	.965	12.60	.762	10.60	.549	11.00	.380
1844	13.70	.887	10.10	.611	9.10	.472	8.70	.300
1845	15.50	1.004	12.80	.774	10.60	.549	10.70	.370
1846	20.60	1.334	17.70	1.070	14.10	.731	13.20	.456
1847	26.30	1.704	21.50	1.300	18.40	.953	16.10	.556
1848	15.00	.972	9.50	.574	9.00	.466	8.90	.307
1849	14.70	.952	7.90	.478	7.10	.368	7.20	.249
1850	13.90	.900	9.10	.550	7.80	.404	8.30	.287
1851	15.00	.972	12.50	.756	10.40	.539	10.80	.373
1852	17.20	1.114	15.40	.931	13.00	.674	12.00	.415
1853	20.50	1.328	17.00	1.028	14.10	.731	13.50	.466
1854	25.80	1.671	20.80	1.257	16.90	.876	16.10	.556
1855	28.40	1.840	22.90	1.384	17.60	.912	16.20	.560
1856	27.00	1.749	21.30	1.288	17.30	.896	15.60	.539
1857	20.40	1.321	13.80	.834	13.50	.700	13.20	.456
1858	18.20	1.179	12.80	.774	12.50	.648	14.30	.494
1859	17.90	1.159	13.60	.822	12.60	.653	13.70	.473
1860	21.00	1.360	15.40	.931	14.00	.725	13.00	.449
1861	22.10	1.432	15.40	.931	13.80	.715	12.10	.418
1862	21.40	1.386	16.00	.967	12.80	.663	12.00	.415
1863	18.40	1.192	13.60	.822	11.80	.611	11.40	.394
1864	15.90	1.030	11.40	.689	11.00	.570	11.70	.404
1865	16.30	1.056	12.50	.756	11.20	.580	11.90	.411
1866	16.60	1.075	14.60	.883	13.50	.700	13.40	.463
1867	25.80	1.671	19.80	1.197	16.90	.876	15.60	.539
1868	25.00	1.619	19.70	1.191	17.50	.907	16.80	.580
1869	19.40	1.257	16.10	.973	15.30	.793	15.40	.532
1870	20.30	1.315	15.60	.943	14.20	.736	14.20	.491
1871	23.40	1.516	17.20	1.040	15.20	.788	14.60	.504
1872	24.20	1.568	16.80	1.016	15.20	.788	13.80	.477
1873	26.40	1.710	19.20	1.161	18.20	.943	16.00	.553
1874	24.00	1.555	19.80	1.197	20.00	1.036	19.20	.663
1875	19.60	1.270	16.60	1.004	16.80	.871	18.00	.622
1876	21.00	1.360	17.40	1.052	16.80	.871	17.70	.611
1877	23.00	1.490	17.70	1.070	16.90	.876	16.00	.553
1878	20.20	1.308	14.30	.865	15.70	.814	13.90	.480
1879	19.60	1.270	14.40	.871	14.80	.767	13.40	.463
1880	21.90	1.419	19.30	1.167	16.80	.871	15.20	.525
1881	22.00	1.425	20.20	1.221	16.60	.860	15.90	.549
1882	20.80	1.347	16.10	.973	15.40	.798	14.60	.504
1883	18.50	1.198	14.70	.889	14.60	.757	13.70	.473
1884	17.30	1.121	14.70	.889	14.90	.772	14.40	.497
1885	16.20	1.049	14.30	.865	14.30	.741	14.30	.494
1886	15.70	1.017	13.40	.810	13.50	.700	13.30	.459
1887	16.40	1.062	12.50	.756	12.80	.663	11.30	.390
1888	17.40	1.127	13.50	.816	13.50	.700	13.00	.449
1889	18.30	1.185	15.60	.943	15.10	.782	15.10	.522
1890	19.20	1.244	17.00	1.028	16.50	.855	16.00	.553
1891	22.20	1.438	20.80	1.257	17.10	.886	16.20	.560

TABLE 76.—*Prices of 17 commodities in Prussia from 1840 to 1891, with equivalents in United States money and measures*—Continued.

Year.	5. Pease, for cooking.		6. Beans.		7. Lentils.		8. Potatoes.	
	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per bushel.
	Marks.		*Marks.*		*Marks.*		*Marks.*	
1840								
1841								
1842								
1843								
1844								
1845								
1846								
1847								
1848								
1849								
1850								
1851								
1852								
1853								
1854								
1855								
1856								
1857								
1858								
1859								
1860								
1861	16.90	$1.168					5.60	$0.363
1862	16.60	1.147					4.95	.321
1863	14.40	.995					4.10	.266
1864	14.50	1.002					4.20	.272
1865	15.40	1.064					4.05	.262
1866	17.00	1.175					4.10	.266
1867	18.90	1.306					5.90	.382
1868	19.90	1.375					5.25	.340
1869	17.70	1.223					4.35	.282
1870	17.00	1.175					5.20	.337
1871	20.00	1.382					6.10	.395
1872	19.40	1.340					5.90	.382
1873	21.60	1.492	31.00	$2.008	33.00	$2.280	6.00	.389
1874	24.60	1.700	33.40	2.163	37.40	2.584	6.70	.434
1875	26.60	1.838	35.00	2.267	42.80	2.957	5.50	.356
1876	25.00	1.727	28.50	1.846	39.50	2.729	5.65	.366
1877	23.30	1.610	29.20	1.891	37.10	2.563	6.35	.411
1878	22.00	1.520	28.60	1.853	35.00	2.418	5.65	.366
1879	21.40	1.479	27.50	1.781	34.50	2.384	6.15	.398
1880	24.20	1.672	30.60	1.982	41.40	2.860	6.50	.421
1881	25.00	1.727	30.80	1.995	44.40	3.068	5.70	.369
1882	24.10	1.665	30.80	1.995	45.40	3.137	4.95	.321
1883	23.70	1.637	30.80	1.995	44.60	3.081	6.15	.398
1884	23.70	1.637	30.30	1.963	43.30	2.992	4.90	.317
1885	22.10	1.527	29.30	1.898	40.20	2.777	4.60	.298
1886	20.80	1.437	28.00	1.814	43.40	2.999	4.10	.266
1887	20.50	1.416	26.60	1.723	44.60	3.081	4.60	.298
1888	20.40	1.409	28.60	1.853	45.90	3.171	5.15	.334
1889	22.10	1.527	29.40	1.904	46.60	3.220	5.25	.340
1890	22.70	1.568	28.30	1.833	45.10	3.116	4.95	.321
1891	23.70	1.637	28.40	1.840	44.20	3.054	7.35	.476

TABLE 76.—*Prices of 17 commodities in Prussia from 1840 to 1891, with equivalents in United States money and measures*—Continued.

Year.	9. Straw.		10. Hay.		11. Beef.		12. Pork.	
	Per 100 kilos.	Per ton (2,240 lbs.).	Per 100 kilos.	Per ton (2,240 lbs.).	Per kilo.	Per pound.	Per kilo.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*	
1840								
1841								
1842								
1843								
1844								
1845								
1846								
1847								
1848								
1849								
1850								
1851								
1852								
1853								
1854								
1855								
1856								
1857								
1858								
1859								
1860								
1861	3.25	$7.859	4.70	$11.365	0.82	$0.089	1.00	$0.108
1862	3.20	7.738	4.70	11.365	.83	.090	1.05	.113
1863	3.35	8.101	5.55	13.420	.82	.089	1.00	.108
1864	3.45	8.342	6.85	16.564	.80	.086	.90	.097
1865	4.50	10.881	7.65	18.498	.82	.089	.93	.100
1866	4.75	11.486	6.60	15.959	.85	.092	1.00	.108
1867	3.45	8.342	5.40	13.058	.92	.099	1.08	.117
1868	3.95	9.551	5.80	14.025	.95	.103	1.15	.124
1869	4.35	10.519	6.40	15.476	.93	.100	1.15	.124
1870	4.35	10.519	7.15	17.289	.97	.105	1.15	.124
1871	4.80	11.607	6.80	16.443	1.00	.108	1.13	.122
1872	3.90	9.431	5.30	12.816	1.13	.122	1.22	.132
1873	3.95	9.551	6.50	15.718	1.23	.133	1.35	.146
1874	4.40	10.640	7.90	19.103	1.24	.134	1.34	.145
1875	5.15	12.453	9.40	22.730	1.13	.122	1.26	.136
1876	7.20	17.410	8.50	20.554	1.13	.122	1.31	.141
1877	6.05	14.629	7.10	17.168	1.15	.124	1.29	.139
1878	4.00	9.672	5.20	12.574	1.17	.126	1.23	.133
1879	4.00	9.672	5.35	12.937	1.15	.124	1.15	.124
1880	4.80	11.607	6.20	14.992	1.14	.123	1.22	.132
1881	6.15	14.871	7.40	17.894	1.14	.123	1.26	.136
1882	5.20	12.574	6.90	16.685	1.16	.125	1.26	.136
1883	4.10	9.914	6.45	15.597	1.20	.130	1.26	.136
1884	4.30	10.398	6.15	14.871	1.20	.130	1.20	.130
1885	3.85	9.310	5.45	13.179	1.19	.128	1.20	.130
1886	4.55	11.002	6.00	14.508	1.17	.126	1.19	.128
1887	4.60	11.123	6.05	14.629	1.13	.122	1.15	.124
1888	4.85	11.728	6.85	16.564	1.12	.121	1.14	.123
1889	5.95	14.388	6.65	16.080	1.17	.126	1.23	.133
1890	5.25	12.695	5.60	13.541	1.26	.136	1.30	.140
1891	4.70	11.365	5.55	13.420	1.28	.138	1.30	.140

TABLE 76.—*Prices of 17 commodities in Prussia from 1840 to 1891, with equivalents in United States money and measures*—Concluded.

Year.	13. Veal.		14. Mutton.		15. Bacon.		16. Butter.		17. Eggs.	
	Per kilo.	Per pound.	Per kilo.	Per pound.	Per kilo.	Per pound.	Per kilo.	Per pound.	Per schock.	Per dozen.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1840										
1841										
1842										
1843										
1844										
1845										
1846										
1847										
1848										
1849										
1850										
1851										
1852										
1853										
1854										
1855										
1856										
1857										
1858										
1859										
1860										
1861							1.62	$0.175		
1862							1.67	.180		
1863							1.63	.176		
1864							1.72	.186		
1865							1.82	.196		
1866							1.75	.189		
1867							1.75	.189		
1868							1.90	.205		
1869							1.98	.214		
1870							1.93	.208		
1871							2.00	.216		
1872							2.18	.235		
1873	1.05	$0.113	1.15	$0.124	1.85	$0.200	2.38	.257	3.37	$0.160
1874	1.02	.110	1.14	.123	1.86	.201	2.52	.272	3.38	.161
1875	.94	.101	1.06	.114	1.84	.199	2.48	.268	3.54	.169
1876	.98	.106	1.07	.116	1.90	.205	2.45	.264	3.44	.164
1877	1.00	.108	1.08	.117	1.88	.203	2.35	.254	3.32	.158
1878	1.01	.109	1.09	.118	1.79	.193	2.15	.232	3.20	.152
1879	.98	.106	1.08	.117	1.66	.179	2.05	.221	3.19	.152
1880	.98	.106	1.08	.117	1.71	.185	2.20	.238	3.22	.153
1881	.98	.106	1.09	.118	1.79	.193	2.27	.245	3.32	.158
1882	1.00	.108	1.11	.120	1.82	.196	2.28	.246	3.26	.155
1883	1.03	.111	1.15	.124	1.84	.199	2.30	.248	3.30	.157
1884	1.02	.110	1.14	.123	1.75	.189	2.21	.239	3.27	.156
1885	1.02	.110	1.13	.122	1.71	.185	2.12	.229	3.27	.156
1886	1.01	.109	1.11	.120	1.69	.182	2.10	.227	3.24	.154
1887	1.00	.108	1.08	.117	1.64	.177	2.07	.223	3.17	.151
1888	.99	.107	1.07	.116	1.60	.173	2.08	.225	3.28	.156
1889	1.05	.113	1.12	.121	1.73	.187	2.21	.239	3.37	.160
1890	1.17	.126	1.21	.131	1.88	.203	2.20	.238	3.52	.168
1891	1.18	.127	1.25	.135	1.77	.191	2.20	.238	3.56	.169

The figures begin in 1861. While not numerous they are sufficient for interesting comparisons. They have not been used as a basis of relative prices because of their relatively small number.

The figures are interesting by reason of the broad basis upon which they rest. Numberless quotations have been used in their construction. The prices are locally widely distributed, and in the original publications afford most excellent material for local comparisons. On the other hand, it may be doubted whether the introduction of so many places strengthens the general result. The wholesale price of these articles in any province will be dominated so largely by the principal distributing points, that one quotation from a large city might give a truer picture than an average of several quotations.

There is always a danger under such a system of the insignificant

points outweighing the really important ones in the combination of any average.

GERMANY—PRICE STATISTICS OF THE IMPERIAL OFFICE.

Parallel with the Prussian figures, but differing somewhat in scope and method, are those published by the Statistical Office of the German Empire since 1879. The original figures are monthly average prices furnished by chambers of commerce or similar bodies in thirty leading markets throughout the Empire. The reports cover as many as thirty-seven articles, but there is no one point which quotes prices for every one of them. The number of quotations, therefore, varies for the different articles from a dozen or more to a single quotation. But as each city returns prices on articles whose trade is of some consequence, the number of quotations fairly represents the importance of the article. While the descriptions of the articles vary between different points, the specific description at each is carefully noted. Where the prices extend over the entire period yearly averages have been formed. But in many cases this is not done, since either all or a portion of the points fail to give complete data. Such figures as could be carried out for the entire period are given in Table 77.

TABLE 77.—*Wholesale prices of 15 commodities in Germany from 1879 to 1891, with equivalents in United States money and measures.*

Year.	1. Wheat.		2. Barley.		3. Oats.		4. Wheat flour.		5. Rape-seed oil.	
	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1879	20.298	$1.315	16.020	$0.830	13.399	$0.463	29.96	$0.082	57.21	$0.062
1880	22.358	1.448	17.462	.905	14.919	.515	33.02	.036	55.83	.060
1881	22.682	1.469	17.112	.887	15.492	.535	32.50	.035	54.18	.061
1882	21.207	1.374	15.891	.823	14.424	.498	32.00	.035	69.72	.066
1883	18.681	1.210	15.319	.794	13.297	.459	29.46	.032	71.65	.077
1884	17.545	1.136	15.729	.815	14.061	.486	27.00	.029	58.72	.063
1885	16.726	1.083	14.818	.768	14.117	.488	24.51	.026	49.71	.054
1886	16.500	1.069	14.126	.732	12.892	.445	23.83	.026	45.03	.049
1887	17.054	1.105	13.564	.703	11.172	.386	24.94	.027	47.47	.051
1888	17.829	1.155	14.399	.746	13.080	.452	26.06	.028	52.14	.056
1889	18.552	1.202	15.850	.821	14.772	.510	27.00	.029	63.89	.069
1890	19.532	1.265	17.498	.907	16.062	.555	28.38	.031	66.53	.072
1891	22.645	1.467	17.357	.899	15.855	.548	32.69	.035	61.96	.067

Year.	6. Sugar, raw.		7. Sugar, refined.		8. Coffee, Rio.		9. Rice, Rangoon		10. Pepper.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1879	63.19	$0.068	79.16	$0.085	121.74	$0.131	28.34	$0.031	89.89	$0.096
1880	64.55	.070	80.74	.087	126.70	.137	28.53	.031	87.53	.094
1881	66.24	.072	83.57	.090	102.96	.111	26.91	.029	104.94	.113
1882	64.52	.070	82.61	.089	82.05	.089	23.71	.026	109.20	.118
1883	60.43	.065	76.64	.083	84.63	.091	23.95	.026	139.41	.149
1884	47.16	.051	63.18	.068	93.40	.101	23.87	.026	143.17	.155
1885	48.47	.052	61.46	.066	80.58	.087	22.91	.025	149.21	.161
1886	43.36	.047	55.68	.060	90.02	.097	21.27	.023	142.22	.153
1887	43.49	.047	55.64	.060	156.75	.169	21.07	.023	151.94	.164
1888	48.08	.052	60.03	.065	136.15	.147	20.94	.023	147.78	.160
1889	40.53	.044	66.56	.072	159.94	.173	20.89	.023	131.68	.142
1890	34.40	.037	57.58	.062	171.93	.186	21.63	.023	102.99	.111
1891	36.35	.039	58.21	.063	160.69	.173	23.22	.025	78.25	.085

TABLE 77.—*Wholesale prices of 15 commodities in Germany, from 1879 to 1891, with equivalents in United States money and measures*—Concluded.

Year.	11. Herring, Scotch.		12. Cotton.		13. Tin.		14. Copper, English.		15. Coal, English.	
	Per 150 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Pr. 1,000 kilos.	Per ton (2240lbs).
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1879	41.69	$0.030	124.90	$0.135	155.15	$0.167	134.07	$0.145	14.44	$3.492
1880	37.85	.027	132.79	.143	184.98	.200	140.70	.152	15.02	3.632
1881	33.62	.024	123.26	.133	197.46	.213	136.43	.147	15.49	3.746
1882	37.88	.027	127.59	.138	220.84	.238	150.24	.162	14.19	3.431
1883	40.96	.029	109.13	.118	201.95	.218	140.79	.152	13.96	3.376
1884	37.28	.027	114.94	.124	179.57	.194	126.09	.136	13.78	3.332
1885	26.82	.019	109.98	.119	186.21	.201	97.55	.105	13.30	3.216
1886	25.54	.018	97.67	.105	209.47	.226	88.13	.095	13.17	3.185
1887	23.64	.017	105.07	.113	235.44	.254	92.89	.100	13.01	3.146
1888	26.01	.019	106.14	.115	254.29	.275	157.00	.169	13.42	3.245
1889	27.97	.020	112.96	.122	198.38	.214	115.44	.125	15.95	3.857
1890	28.26	.020	114.62	.124	198.92	.215	122.81	.132	18.63	4.505
1891	34.38	.025	89.32	.096	191.58	.207	116.02	.125	17.68	4.275

In the researches of Prof. Conrad, already mentioned, an effort has been made to obtain if possible the same results from the foregoing table. He has prepared for this purpose the table which follows:

TABLE 78.—*Relative prices in Germany for certain periods—Calculations of Prof. Conrad.*

	Articles.	Average of actual prices 1879–1883.				Relative prices.		
		Quantity.	Price.	Quantity.	Price.	1884–1889. Average of 1879–1883 being 100.	1890. Average of 1879–1883 being 100.	1890. Average of 1879–1889 being 100.
			Marks.					
1	Wheat	1,000 kilos	190.39	Bushel	$1.233	82.58	92.81	102.59
2	Barley	do	154.81	do	.802	90.14	106.95	113.03
3	Oats	do	137.86	do	.476	93.33	112.31	116.57
4	Wheat flour	100 kilos	28.21	Pound	.030	81.43	90.41	100.60
5	Rape-seed oil (a)	do	51.23	do	.059	86.96	111.61	120.15
6	Sugar, raw (a)	do	53.15	do	.057	70.70	53.77	63.99
7	Sugar, refined (a)	do	67.68	do	.073	74.61	71.63	83.14
8	Coffee, Rio (a)	do	112.73	do	.122	114.83	165.96	153.56
9	Rice, Rangoon (a)	do	22.38	do	.024	84.61	94.47	103.13
10	Pepper (a)	do	115.16	do	.124	145.41	102.42	88.57
11	Herrings, Norwegian (a)	Ton of 150 kilos.	27.91	do	.020	79.71	75.50	84.82
12	Cotton (a)	100 kilos	114.58	do	.124	87.26	92.72	99.64
13	Tin	do	202.16	do	.218	109.63	103.57	98.40
14	Copper, English (a)	do	127.87	do	.138	81.49	91.23	101.48
15	Coal (a)	1,000 kilos	18.13	Ton	4.384	99.12	122.01	132.60
	Average of relative prices.					92.12	99.83	104.15

a These prices do not correspond exactly with those of our previous table, since in making his combinations, Prof. Conrad has used other qualities or brands of articles from those adopted for the official table.

From the foregoing it will be seen that the fall of prices in the latter part of the decade 1880 to 1890 as compared with the former is not so great as in the entire decade as compared with that which preceded it. The difference between 1890 and the average of 1879 to 1889 is less marked.

Without attaching any great consequence to it we have added in the foregoing table the simple average of the 15 quotations omitted by Prof. Conrad.

AUSTRIA.

There are, in Austria, a few statistics of prices which are worthy of attention. They relate to a very limited number of articles, but cover a long period.

They form part of a volume prepared by the finance ministry, comprising materials for the study of the monetary question in Austria. The volume is replete with valuable material. In the section relating to prices and wages an attempt has been made to give retail prices of 9 articles in 33 cities or districts from the period 1830 to 1890. Blanks are not infrequent in the tables, and while cities and their surrounding districts are as a rule separated in the tabulations there are many cases when a single price stands for both. As representing probably the best figures in the compilation, since figures for towns are more easily available than for country points, and as most useful for the study in which we are at present engaged, we give the figures for Vienna, Prague, Salzburg, and Trieste.

The figures are retail prices in open market compiled from unpublished reports of the police authorities from 1827 to the present time. What rules may have governed the collection of this material we do not know, nor have we any guaranty of the identity of quality of the goods at different periods.

The prices for Vienna in our table are always for the city alone, but the Salzburg figures while as a rule for the city alone, are at other times for a very considerable district surrounding the city. Prior to 1848 the figures are for such a district including the city of Linz, from 1848 to 1876 the figures are for a smaller district, limited to the country surrounding Salzburg, while from 1876 to 1891 the figures are for the city alone. The Prague prices include quite a large district before 1877, while the same is true of the Trieste figures before 1872. The very limited scope of the figures which we present has deterred us from making any calculations of relative prices. The actual prices follow in Table 79.

TABLE 79.—*Market prices of 9 commodities in Austrian cities from 1840 to 1891, with equivalents in United States money and measures.*

1. WHEAT.

Year.	In Vienna.		In Salzburg.		In Prague.		In Trieste.	
	Per hectoliter.	Per bushel.	Per hectoliter.	Per bushel.	Per hectoliter.	Per bushel.	Per hectoliter.	Per bushel.
	Florins.		*Florins.*		*Florins.*		*Florins.*	
1840	5.59	$0.672	5.64	$0.678	5.87	$0.705	6.70	$0.805
1841	5.27	.633	5.33	.640	4.85	.583	6.56	.788
1842	5.96	.716	5.90	.709	5.59	.672	6.50	.781
1843	4.87	.585	5.70	.685	6.07	.729	5.50	.661
1844	4.45	.535	6.10	.733	5.33	.640	5.24	.630
1845	5.44	.654	5.81	.698	5.27	.633	5.70	.685
1846	7.52	.904	7.68	.923	7.70	.925	8.27	.994
1847	10.03	1.205	10.72	1.288	9.26	1.113	9.21	1.107
1848	7.52	.904	8.15	.979	6.36	.764	7.81	.939
1849	7.44	.894	7.21	.866	5.70	.685	7.44	.894
1850	6.44	.774	7.87	.946	5.73	.689	7.64	.918
1851	6.78	.815	9.35	1.124	7.47	.898	7.32	.880
1852	7.47	.898	10.80	1.298	8.46	1.017	7.78	.935
1853	8.27	.994	12.11	1.455	8.89	1.068	9.95	1.196
1854	12.88	1.548	16.05	1.929	12.68	1.524	13.37	1.607
1855	13.48	1.620	14.65	1.760	12.51	1.503	12.97	1.559
1856	11.63	1.398	10.60	1.274	9.72	1.168	11.66	1.401
1857	7.44	.894	10.37	1.246	7.64	.918	9.32	1.120
1858	6.81	.818	9.47	1.138	7.64	.918	7.87	.946
1859	6.98	.839	9.00	1.082	7.91	.951	9.05	1.088
1860	9.19	1.104	.....	.....	9.60	1.154	9.96	1.197
1861	9.31	1.119	.....	.....	10.15	1.220	11.15	1.340
1862	8.15	.979	10.73	1.289	8.83	1.061	9.47	1.138
1863	7.50	.901	9.47	1.138	7.64	.918	9.00	1.082
1864	7.42	.892	9.57	1.150	6.88	.827	7.58	.911
1865	6.80	.817	7.74	.930	6.42	.771	7.17	.862
1866	10.04	1.206	9.23	1.109	7.11	.854	8.90	1.069
1867	.....	.....	11.76	1.413	11.17	1.342	9.89	1.188
1868	9.73	1.169	10.67	1.282	10.33	1.241	10.40	1.250
1869	8.10	.973	7.56	.908	8.57	1.030	8.75	1.051
1870	9.29	1.116	10.22	1.228	9.41	1.131	8.97	1.078
1871	10.56	1.269	11.32	1.360	10.20	1.226	9.60	1.154
1872	10.97	1.318	12.05	1.448	10.76	1.293	10.01	1.203
1873	13.32	1.601	13.51	1.623	12.03	1.446	11.05	1.328
1874	11.92	1.432	12.03	1.446	11.07	1.330	10.58	1.271
1875	9.11	1.095	9.67	1.162	8.83	1.061	8.77	1.054
1876	13.01	1.563	10.36	1.245	9.46	1.137	11.84	1.423
1877	15.55	1.869	11.53	1.386	11.03	1.325	7.50	.901
1878	8.79	1.056	9.39	1.128	9.22	1.108	10.30	1.238
1879	8.88	1.067	8.76	1.053	8.96	1.077	11.40	1.370
1880	9.93	1.193	10.45	1.256	9.97	1.198	9.60	1.154
1881	9.90	1.190	9.95	1.196	9.84	1.182	11.43	1.374
1882	9.29	1.116	9.37	1.126	9.10	1.094	11.43	1.374
1883	8.76	1.053	7.12	.856	7.85	.943	10.84	1.303
1884	10.29	1.237	7.58	.911	8.21	.987	7.15	.859
1885	7.16	.860	6.55	.787	7.76	.933	9.32	1.120
1886	7.28	.875	6.90	.829	7.60	.913	7.14	.858
1887	7.12	.856	7.03	.845	7.86	.945	6.92	.832
1888	6.57	.789	6.21	.746	6.97	.838	8.55	1.027
1889	6.84	.822	5.76	.692	6.90	.829	6.53	.785
1890	7.05	.847	6.94	.834	6.97	.838	6.49	.780
1891	.....	.....	7.86	.945	.....	.....	7.27	.874

TABLE 79.—*Market prices of 9 commodities in Austrian cities from 1840 to 1891, with equivalents in United States money and measures*—Continued.

2. RYE.

Year.	In Vienna.		In Salsburg.		In Prague.		In Trieste.	
	Per hectoliter.	Per bushel.	Per hectoliter.	Per bushel.	Per hectoliter.	Per bushel.	Per hectoliter.	Per bushel.
	Florins.		*Florins.*		*Florins.*		*Florins.*	
1840	3.90	$0.469	3.51	$0.422	4.22	$0.507	4.79	$0.576
1841	3.42	.411	3.33	.400	3.22	.387	4.53	.544
1842	3.33	.400	3.33	.400	3.25	.391	4.25	.511
1843	3.48	.418	3.53	.424	4.67	.561	3.73	.448
1844	2.74	.329	4.25	.511	3.85	.463	3.62	.435
1845	5.19	.624	4.73	.568	4.13	.496	3.73	.448
1846	5.39	.648	6.33	.761	6.07	.729	4.70	.565
1847	7.55	.907	7.15	.859	7.50	.901	4.82	.579
1848	4.87	.585	5.42	.651	4.30	.517	5.30	.637
1849	4.28	.514	4.28	.514	3.36	.404	4.93	.593
1850	3.82	.459	5.42	.651	3.73	.448	4.79	.576
1851	4.87	.585	7.30	.877	5.61	.674	4.93	.592
1852	6.38	.767	9.46	1.137	7.50	.901	5.13	.616
1853	6.21	.746	9.72	1.168	7.21	.866	6.81	.818
1854	9.23	1.109	11.49	1.381	10.46	1.257	9.95	1.196
1855	9.15	1.100	10.52	1.264	10.12	1.216	9.35	1.124
1856	7.07	.850	6.93	.833	7.04	.846	7.61	.914
1857	4.42	.531	6.58	.791	4.87	.585	6.53	.785
1858	4.17	.501	5.51	.662	4.87	.585	5.31	.638
1859	4.71	.566	5.82	.699	5.54	.666	6.06	.728
1860	5.67	.681	.....	.....	6.93	.833	6.67	.802
1861	7.66	.921	.....	.....	7.53	.905	7.56	.907
1862	5.22	.627	7.68	.923	6.32	.759	6.91	.830
1863	4.79	.576	6.23	.749	5.10	.613	6.45	.775
1864	4.76	.572	6.08	.731	4.60	.553	5.48	.659
1865	4.04	.485	4.97	.597	4.43	.532	5.22	.627
1866	6.83	.821	6.05	.727	6.62	.796	6.11	.734
1867	.....	.....	8.45	1.015	8.59	1.032	6.15	.739
1868	6.63	.797	7.60	.913	8.08	.971	7.13	.856
1869	5.69	.684	9.44	1.134	6.86	.824	5.25	.631
1870	6.39	.768	6.47	.778	7.12	.856	6.09	.731
1871	6.44	.774	7.02	.844	7.27	.874	6.81	.818
1872	6.59	.792	7.45	.895	6.91	.830	6.01	.722
1873	9.44	1.134	8.76	1.053	8.41	1.011	6.98	.839
1874	8.83	1.061	8.83	1.061	8.66	1.041	6.67	.802
1875	6.55	.787	7.11	.854	6.94	.834	5.57	.669
1876	10.40	1.250	7.11	.854	7.65	.919	7.96	.956
1877	11.96	1.437	6.94	.834	8.51	1.023	6.08	.731
1878	5.90	.709	6.05	.727	6.27	.753	6.70	.805
1879	5.98	.719	5.50	.661	6.23	.749	7.51	.902
1880	8.76	1.053	6.94	.834	7.99	.960	9.65	1.160
1881	7.73	.929	7.57	.910	8.23	.989	8.49	1.020
1882	6.43	.773	6.43	.773	6.68	.803	8.49	1.020
1883	6.32	.759	5.65	.679	6.60	.793	8.23	.989
1884	9.14	1.098	5.54	.666	6.84	.822	4.68	.562
1885	5.78	.695	5.45	.655	6.30	.757	7.49	.900
1886	5.40	.649	4.74	.570	5.80	.697	4.90	.589
1887	5.21	.626	4.49	.540	5.67	.681	4.71	.566
1888	4.84	.582	4.02	.483	5.32	.639	6.50	.781
1889	5.40	.649	4.32	.519	5.30	.637	4.55	.547
1890	6.01	.722	5.43	.653	6.46	.776	.....	.....
1891	.....	.....	6.36	.753	.....	.....	.....	.....

TABLE 79.—*Market prices of 9 commodities in Austrian cities from 1840 to 1891, with equivalents in United States money and measures*—Continued.

8. BARLEY.

Year.	In Vienna.		In Salzburg.		In Prague.		In Trieste.	
	Per hectoliter.	Per bushel.	Per hectoliter.	Per bushel.	Per hectoliter.	Per bushel.	Per hectoliter.	Per bushel.
	Florins.		*Florins.*		*Florins.*		*Florins.*	
1840	3.16	$0.380	3.36	$0.404	3.31	$0.398	4.99	$0.600
1841	2.88	.346	2.57	.309	2.51	.302	4.56	.548
1842	3.08	.370	2.54	.305	2.59	.311	4.50	.541
1843	2.59	.311	2.79	.335	3.82	.459	4.02	.483
1844	2.00	.240	3.45	.415	2.88	.346	4.13	.496
1845	2.59	.311	3.59	.431	3.14	.377	4.33	.520
1846	3.76	.452	4.99	.600	4.65	.559	6.50	.781
1847	5.24	.630	5.42	.651	5.90	.709	6.36	.764
1848	3.42	.411	3.76	.452	3.51	.422	5.27	.633
1849	3.48	.418	3.76	.452	2.79	.335	4.87	.585
1850	3.31	.398	4.65	.559	3.11	.374	4.70	.565
1851	4.13	.496	7.04	.846	4.59	.552	4.25	.511
1852	4.79	.576	6.64	.798	5.36	.644	4.65	.559
1853	4.82	.579	7.50	.901	5.53	.665	7.47	.898
1854	6.18	.743	8.41	1.011	7.78	.935	9.21	1.107
1855	6.44	.774	8.07	.970	7.38	.887	8.58	1.031
1856	5.27	.633	5.53	.665	5.30	.637	7.32	.880
1857	3.82	.459	4.90	.589	4.10	.493	6.38	.767
1858	3.16	.380	4.79	.576	4.22	.507	5.36	.644
1859	3.85	.463	5.61	.674	4.58	.550	5.87	.705
1860	4.16	.500	.....	.....	5.74	.690	6.18	.743
1861	5.44	.654	.....	.....	5.84	.702	6.67	.802
1862	4.27	.513	7.30	.877	4.82	.579	6.16	.740
1863	3.93	.472	5.26	.632	3.99	.479	5.93	.713
1864	4.22	.507	5.44	.654	4.52	.543	4.96	.596
1865	2.85	.342	4.42	.531	3.46	.416	4.97	.597
1866	4.55	.547	5.33	.640	5.10	.613	6.16	.740
1867	5.43	.653	6.78	.815	6.39	.768	7.03	.845
1868	4.40	.529	6.46	.776	6.37	.765	7.30	.877
1869	4.48	.538	6.18	.743	5.80	.697	6.30	.757
1870	6.34	.762	6.11	.734	5.74	.690	6.18	.743
1871	4.94	.594	6.75	.811	5.98	.719	5.49	.660
1872	5.10	.613	6.73	.809	5.80	.697	5.09	.612
1873	6.49	.780	8.34	1.002	6.93	.833	5.36	.644
1874	6.44	.774	7.99	.960	7.22	.868	5.82	.699
1875	4.63	.556	6.57	.790	5.75	.691	5.36	.644
1876	7.56	.908	6.81	.818	6.03	.725	8.18	.983
1877	7.68	.923	7.42	.892	7.10	.853	5.77	.693
1878	4.12	.495	7.11	.854	6.17	.741	5.64	.678
1879	4.93	.592	7.00	.841	5.89	.708	7.38	.887
1880	4.83	.580	6.23	.749	6.15	.739	9.36	1.125
1881	5.15	.619	6.35	.763	5.68	.683	.....	.....
1882	5.16	.620	5.90	.709	5.52	.663	.....	.....
1883	5.49	.660	4.95	.595	5.50	.661	.....	.....
1884	9.47	1.138	5.28	.634	5.84	.702	.....	.....
1885	5.11	.614	4.56	.548	5.51	.662	6.37	.765
1886	4.71	.566	4.40	.529	5.01	.602	.....	.....
1887	4.57	.549	4.22	.507	4.57	.549	.....	.....
1888	4.52	.543	4.87	.585	5.15	.619	.....	.....
1889	5.41	.650	5.18	.622	5.10	.613	.....	.....
1890	5.20	.625	5.26	.632	5.50	.661	.....	.....
1891	.....	.....	5.45	.655	.....	.....	.....	.....

TABLE 79.—*Market prices of 9 commodities in Austrian cities from 1840 to 1891, with equivalents in United States money and measures*—Continued.

4. CORN.

Year.	In Vienna.		In Salzburg.		In Prague.		In Trieste.	
	Per hectoliter.	Per bushel.	Per hectoliter.	Per bushel.	Per hectoliter.	Per bushel.	Per hectoliter.	Per bushel.
	Florins.		*Florins.*		*Florins.*		*Florins.*	
1840	4.65	$0.559	.....	.....	.....	.....	4.73	$0.568
1841	3.85	.463	.....	.....	6.84	$0.822	3.56	.428
1842	4.56	.548	.....	.....	.....	.....	3.71	.446
1843	4.22	.507	.....	.....	.....	.....	3.82	.459
1844	3.48	.418	.....	.....	.....	.....	3.56	.428
1845	3.96	.476	.....	.....	.....	.....	3.45	.415
1846	4.70	.565	.....	.....	.....	.....	4.93	.592
1847	7.15	.859	7.70	$0.925	.....	.....	6.01	.722
1848	4.50	.541	6.50	.781	.....	.....	5.04	.605
1849	4.85	.583	.....	.....	.....	.....	4.79	.576
1850	4.96	.596	.....	.....	14.88	1.788	4.99	.600
1851	5.27	.633	.....	.....	15.39	1.849	4.79	.576
1852	5.59	.672	7.21	.866	.....	.....	5.53	.665
1853	6.04	.726	8.72	1.048	.....	.....	7.21	.866
1854	7.35	.883	9.46	1.137	10.72	1.288	9.69	1.164
1855	7.41	.890	11.74	1.411	9.15	1.100	8.18	.983
1856	5.64	.678	8.01	.963	8.78	1.055	6.58	.791
1857	4.96	.596	7.81	.939	7.41	.890	6.33	.761
1858	5.40	.649	8.98	1.079	6.54	.786	5.23	.627
1859	5.28	.634	9.06	1.089	6.89	.828	5.95	.715
1860	5.98	.719	.....	.....	9.75	1.172	6.75	.811
1861	6.28	.755	.....	.....	7.71	.926	7.63	.917
1862	6.96	.836	11.92	1.432	8.31	.999	6.32	.759
1863	5.84	.702	8.56	1.029	12.83	1.542	5.75	.691
1864	6.34	.762	9.08	1.091	11.43	1.374	5.20	.625
1865	4.68	.562	8.30	.997	9.03	1.085	5.09	.612
1866	5.85	.703	8.26	.993	7.40	.889	6.26	.752
1867	7.09	.852	8.82	1.060	7.73	.929	6.55	.787
1868	5.61	.674	7.73	.929	6.60	.793	6.57	.790
1869	5.33	.640	7.22	.868	6.99	.840	5.48	.659
1870	6.01	.722	8.36	1.005	6.76	.812	5.93	.713
1871	6.05	.727	9.47	1.138	6.67	.802	7.12	.856
1872	6.80	.817	9.40	1.130	8.12	.976	5.15	.619
1873	7.34	.882	10.31	1.239	10.24	1.231	5.69	.684
1874	7.19	.864	8.88	1.067	8.13	.977	7.14	.858
1875	4.66	.560	7.32	.880	6.57	.790	5.35	.643
1876	7.77	.934	8.67	1.042	5.13	.616	.....	.....
1877	8.99	1.080	6.70	.805	6.57	.790	6.84	.822
1878	5.74	.690	6.56	.788	6.29	.756	6.84	.822
1879	5.10	.613	8.50	1.021	5.58	.671	8.21	.987
1880	6.30	.757	6.00	.721	5.85	.703	7.93	.953
1881	5.77	.693	4.70	.565	6.34	.762	7.97	.958
1882	6.42	.771	4.84	.582	5.33	.640	.....	.....
1883	5.98	.719	5.37	.645	6.22	.747	7.88	.947
1884	7.76	.933	5.68	.683	5.64	.678	5.15	.619
1885	5.21	.626	5.23	.628	5.88	.707	6.68	.803
1886	5.00	.601	5.74	.690	5.33	.640	4.70	.565
1887	5.17	.621	5.61	.674	5.68	.683	4.60	.553
1888	5.27	.633	5.43	.653	5.42	.651	6.43	.773
1889	4.76	.572	5.17	.621	5.44	.654	4.35	.523
1890	4.85	.583	5.28	.634	5.05	.607	4.15	.499
1891	.....	.....	6.07	.729	.....	.....	5.69	.683

TABLE 79.—*Market prices of 9 commodities in Austrian cities from 1840 to 1891, with equivalents in United States money and measures*—Continued.

5. OATS.

Year.	In Vienna.		In Salzburg.		In Prague.		In Trieste.	
	Per hectoliter.	Per bushel.	Per hectoliter.	Per bushel.	Per hectoliter.	Per bushel.	Per hectoliter.	Per bushel.
	Florins.		*Florins.*		*Florins.*		*Florins.*	
1840	2.74	$0.329	2.00	$0.240	1.77	$0.213	3.33	$0.400
1841	2.57	.308	1.94	.233	1.65	.198	3.02	.363
1842	2.51	.302	1.82	.219	1.77	.213	2.79	.335
1843	2.37	.285	2.14	.257	2.54	.305	2.79	.335
1844	2.05	.246	2.31	.278	1.68	.202	2.79	.335
1845	2.34	.281	1.85	.222	1.85	.222	2.99	.359
1846	2.11	.254	2.65	.318	2.42	.291	3.90	.469
1847	3.62	.435	2.94	.353	3.02	.363	3.65	.439
1848	2.71	.326	2.48	.298	2.02	.243	3.73	.448
1849	3.02	.363	2.48	.298	2.08	.250	3.93	.472
1850	2.99	.359	2.79	.335	2.22	.267	3.85	.463
1851	3.71	.446	3.96	.476	2.85	.342	3.96	.476
1852	3.68	.442	3.93	.472	3.02	.363	3.99	.479
1853	3.96	.476	3.65	.439	3.14	.377	4.70	.565
1854	4.96	.596	4.59	.552	4.42	.531	5.39	.648
1855	4.28	.514	4.65	.559	3.65	.439	5.39	.648
1856	3.48	.418	3.16	.380	2.99	.359	4.56	.548
1857	3.42	.411	3.22	.387	2.96	.356	4.28	.514
1858	3.36	.404	3.54	.425	3.23	.388	3.88	.466
1859	3.91	.470	4.19	.504	3.46	.416	4.63	.556
1860	3.49	.419	.....	.....	3.47	.417	4.42	.531
1861	3.73	.448	.....	.....	3.21	.386	4.58	.550
1862	3.60	.433	3.90	.469	2.77	.333	4.06	.488
1863	3.60	.433	3.37	.405	2.89	.347	4.17	.501
1864	3.81	.458	3.65	.439	2.87	.345	3.78	.454
1865	2.66	.320	2.74	.329	2.46	.296	3.72	.447
1866	3.60	.433	3.06	.368	3.18	.382	4.27	.513
1867	3.60	.433	3.64	.437	3.65	.439	3.90	.469
1868	3.67	.441	3.92	.471	4.09	.491	3.99	.479
1869	3.65	.439	3.62	.435	3.91	.470	4.03	.484
1870	4.24	.510	4.19	.504	3.90	.469	4.21	.506
1871	4.08	.490	4.27	.513	3.91	.470	3.65	.439
1872	3.77	.453	3.90	.469	3.41	.410	2.93	.352
1873	3.81	.458	4.26	.512	3.83	.460	3.10	.373
1874	4.52	.543	4.94	.594	4.84	.582	4.11	.494
1875	3.88	.466	4.43	.532	4.34	.522	3.60	.433
1876	4.09	.491	4.69	.564	4.47	.537	8.98	1.079
1877	3.69	.443	4.16	.500	4.13	.496	4.00	.481
1878	3.33	.400	3.61	.434	3.56	.428	4.12	.495
1879	2.94	.353	3.37	.405	3.53	.424	7.38	.887
1880	3.25	.391	3.57	.429	3.82	.459	8.23	.989
1881	3.18	.382	3.79	.455	3.93	.472	.....	.....
1882	3.30	.397	3.61	.424	3.81	.458	7.97	.958
1883	3.10	.373	2.80	.336	3.39	.407	7.24	.870
1884	3.38	.406	2.99	.359	3.64	.437	8.25	.991
1885	3.13	.376	3.31	.398	3.66	.440	8.03	.965
1886	3.02	.363	3.13	.376	3.46	.411	3.31	.398
1887	2.74	.329	2.72	.327	2.94	.353	2.93	.352
1888	2.57	.309	2.67	.321	2.80	.336	6.05	.727
1889	2.93	.352	2.89	.347	2.75	.330	2.61	.314
1890	3.46	.416	3.61	.434	3.94	.473	2.97	.357
1891	.....	.....	3.17	.381	.....	.....	2.87	.345

TABLE 79.—*Market prices of 9 commodities in Austrian cities from 1840 to 1891, with equivalents in United States money and measures*—Continued.

6. POTATOES.

Year.	In Vienna.		In Salzburg.		In Prague.		In Trieste.	
	Per hectoliter.	Per bushel.	Per hectoliter.	Per bushel.	Per hectoliter.	Per bushel.	Per hectoliter.	Per bushel.
	Florins.		*Florins.*		*Florins.*		*Florins.*	
1840	1.51	$0.181	0.77	$0.093	0.97	$0.117	2.31	$0.278
1841	1.17	.141	.71	.085	.80	.096	2.51	.302
1842	1.91	.230	.74	.089	1.05	.126	2.51	.302
1843	1.94	.233	.97	.117	1.85	.222	2.25	.270
1844	1.28	.154	1.08	.130	1.23	.148	2.08	.250
1845	1.17	.141	.91	.109	1.17	.141	2.08	.250
1846	2.05	.246	1.20	.144	1.58	.190	2.79	.335
1847	3.65	.439	2.51	.302	2.19	.263	3.82	.459
1848	2.79	.335	2.31	.278	1.65	.198	4.65	.559
1849	2.08	.250	2.05	.246	1.17	.141	4.42	.531
1850	2.02	.243	2.28	.274	1.31	.157	3.82	.459
1851	2.45	.294	3.22	.387	1.97	.237	4.33	.520
1852	3.56	.428	3.51	.422	2.08	.250	4.67	.561
1853	2.22	.267	3.65	.439	2.17	.261	5.47	.657
1854	3.45	.415	4.02	.483	3.14	.377	6.30	.757
1855	3.59	.431	3.53	.424	2.62	.315	5.16	.620
1856	2.68	.322	2.82	.339	1.74	.209	4.33	.520
1857	2.42	.291	2.68	.322	1.25	.150	3.79	.455
1858	2.85	.342	2.71	.326	1.45	.174	3.50	.421
1859	2.59	.311	2.95	.354	1.65	.198	3.99	.479
1860	2.95	.354	.....	.....	2.10	.252	4.38	.526
1861	3.10	.373	.....	.....	2.09	.251	4.74	.570
1862	2.85	.342	2.14	.257	1.63	.196	4.45	.535
1863	2.87	.345	3.11	.374	1.56	.187	3.81	.456
1864	3.11	.374	2.98	.358	1.55	.186	3.36	.404
1865	2.00	.240	2.59	.311	1.32	.159	2.54	.305
1866	2.46	.296	2.74	.329	1.78	.214	5.08	.610
1867	3.28	.394	3.50	.421	2.43	.292	3.99	.479
1868	2.64	.317	2.95	.354	2.35	.282	4.16	.500
1869	2.67	.321	2.45	.294	2.00	.240	4.21	.506
1870	3.05	.367	2.72	.327	1.76	.211	3.91	.470
1871	2.64	.317	3.19	.383	1.99	.239	5.61	.674
1872	3.06	.368	3.37	.405	2.15	.258	5.61	.674
1873	4.55	.547	3.59	.431	2.53	.304	6.42	.771
1874	3.99	.479	3.33	.400	2.59	.311	7.29	.876
1875	2.85	.342	3.42	.411	1.84	.221	5.74	.690
1876	2.76	.332	3.25	.391	1.76	.211	.....	.....
1877	3.29	.395	3.66	.440	2.31	.278	4.60	.553
1878	2.65	.318	3.48	.418	2.18	.262	5.20	.625
1879	3.59	.431	3.12	.375	2.70	.324	6.16	.740
1880	4.07	.489	3.06	.367	2.85	.342	6.33	.761
1881	4.14	.497	3.83	.460	2.76	.332	5.80	.697
1882	2.99	.359	1.68	.202	2.20	.264	5.80	.697
1883	3.25	.391	2.31	.278	2.64	.317	6.20	.745
1884	4.22	.507	2.61	.314	2.07	.249	2.89	.347
1885	3.34	.401	2.69	.323	1.78	.214	5.57	.669
1886	2.14	.257	3.50	.421	1.40	.168	3.00	.361
1887	2.19	.263	2.15	.258	1.77	.213	2.79	.335
1888	2.41	.290	3.08	.370	1.48	.178	4.20	.505
1889	2.67	.321	2.69	.323	1.50	.180	2.65	.318
1890	2.63	.316	3.08	.370	1.58	.190	2.60	.312
1891	.....	.....	3.08	.370	.....	.....	2.49	.299

TABLE 79.—*Market prices of 9 commodities in Austrian cities from 1840 to 1891, with equivalents in United States money and measures*—Continued.

7. BEEF.

Year.	In Vienna.		In Salzburg.		In Prague.		In Trieste.	
	Per kilo.	Per pound.	Per kilo.	Per pound.	Per kilo.	Per pound.	Per kilo.	Per pound.
	Florins.		*Florins.*		*Florins.*		*Florins.*	
1840	0.26	$0.043	0.16	$0.028	0.21	$0.032	0.22	$0.036
1841	.28	.043	.18	.028	.20	.031	.22	.036
1842	.28	.043	.18	.028	.20	.031	.22	.036
1843	.30	.046	.19	.029	.23	.036	.25	.039
1844	.28	.043	.20	.031	.23	.036	.25	.039
1845	.30	.046	.20	.031	.23	.036	.25	.039
1846	.31	.048	.20	.031	.23	.036	.24	.037
1847	.31	.048	.20	.031	.23	.036	.25	.039
1848	.34	.053	.22	.034	.24	.037	.28	.043
1849	.37	.057	.30	.046	.25	.039	.28	.043
1850	.37	.057	.31	.048	.28	.043	.31	.048
1851	.37	.057	.31	.048	.30	.046	.34	.053
1852	.38	.059	.30	.046	.31	.048	.31	.048
1853	.37	.057	.30	.046	.31	.048	.31	.048
1854	.41	.063	.31	.048	.34	.053	.31	.048
1855	.44	.068	.34	.053	.34	.053	.31	.048
1856	.44	.068	.32	.049	.34	.053	.34	.053
1857	.41	.063	.32	.049	.31	.048	.34	.053
1858	.38	.059	.32	.049	.32	.049	.34	.053
1859	.41	.063	.32	.049	.34	.053	.39	.060
1860	.39	.060	----	----	.38	.059	.38	.059
1861	.47	.073	----	----	.43	.067	.39	.060
1862	.48	.074	.41	.063	.43	.067	.41	.063
1863	.47	.073	.38	.059	.38	.059	.41	.063
1864	.47	.073	.38	.059	.38	.059	.41	.063
1865	.41	.063	.36	.056	.36	.056	.38	.059
1866	.41	.063	.39	.060	.43	.067	.38	.059
1867	.48	.074	.44	.068	.47	.073	.52	.080
1868	.54	.084	.45	.070	.47	.073	.48	.074
1869	.57	.088	.45	.070	.50	.077	.53	.082
1870	.59	.091	.48	.074	.52	.080	.57	.088
1871	.61	.094	.52	.080	.55	.085	.70	.108
1872	.63	.097	.56	.087	.59	.091	.72	.111
1873	.61	.094	.61	.094	.61	.094	.79	.122
1874	.59	.091	.61	.094	.59	.091	.72	.111
1875	.57	.088	.54	.084	.55	.085	.72	.111
1876	.61	.094	.57	.088	.58	.090	.74	.114
1877	.62	.096	.66	.102	.63	.097	.74	.114
1878	.62	.096	.67	.104	.64	.099	.70	.108
1879	.63	.097	.61	.094	.63	.097	.76	.118
1880	.62	.096	.56	.087	.61	.094	.77	.119
1881	.63	.097	.58	.090	.61	.094	.62	.096
1882	.65	.101	.58	.090	.61	.094	.62	.096
1883	.69	.107	.64	.099	.61	.094	.63	.097
1884	.70	.108	.64	.099	.62	.096	.76	.118
1885	.70	.108	.60	.093	.62	.096	.62	.096
1886	.66	.102	.60	.093	.62	.096	.63	.097
1887	.65	.101	.57	.088	.62	.096	.63	.097
1888	.65	.101	.60	.093	.61	.094	.56	.087
1889	.64	.099	.60	.093	.62	.096	.58	.090
1890	.65	.101	.58	.090	.61	.094	.63	.097
1891	----	----	.64	.099	----	----	.68	.105

TABLE 79.—*Market prices of 9 commodities in Austrian cities from 1840 to 1891, with equivalents in United States money and measures*—Continued.

8. HAY.

Year.	In Vienna.		In Salsburg.		In Prague.		In Trieste.	
	Per centner.	Per 2,240 pounds.	Per centner.	Per 2,240 pounds.	Per centner.	Per 2,240 pounds.	Per centner.	Per 2,240 pounds.
	Florins.		*Florins.*		*Florins.*		*Florins.*	
1840	1.97	$13.650	1.47	$10.186	1.93	$13.373	3.09	$28.787
1841	2.09	14.482	1.90	13.165	2.46	17.046	3.15	21.827
1842	2.84	19.679	1.97	13.650	2.75	19.055	2.65	18.362
1843	2.53	17.531	2.09	14.482	3.21	22.242	2.00	13.858
1844	1.62	11.225	1.59	11.017	1.90	13.165	1.87	12.957
1845	1.75	12.126	1.53	10.602	1.87	12.957	2.40	16.630
1846	2.25	15.591	1.59	11.017	2.03	14.066	2.59	17.946
1847	2.40	16.630	1.75	12.126	2.50	17.323	2.56	17.739
1848	2.22	15.383	2.09	14.482	2.34	16.214	2.75	19.055
1849	2.78	19.263	2.12	14.690	2.65	18.362	3.31	22.935
1850	2.71	18.778	2.87	19.887	2.62	18.154	2.63	18.154
1851	2.84	19.679	2.81	19.471	2.81	19.471	2.40	16.630
1852	3.37	23.351	3.06	21.203	3.15	21.827	3.46	23.975
1853	3.37	23.351	2.34	16.214	3.00	20.787	3.40	23.559
1854	3.03	20.995	2.50	17.323	2.90	20.094	2.65	18.362
1855	3.28	22.728	2.93	20.302	2.65	18.362	2.93	20.302
1856	3.15	21.827	2.93	20.302	2.81	19.471	2.84	19.679
1857	4.21	29.172	3.00	20.787	3.78	26.192	2.90	20.094
1858	3.97	27.509	2.85	19.748	4.22	29.241	3.04	21.065
1859	3.51	24.321	2.74	18.986	3.56	24.668	3.11	21.550
1860	2.92	20.233	.....	.....	2.81	19.471	2.15	21.827
1861	2.85	19.748	.....	.....	2.81	19.471	2.29	22.797
1862	2.79	19.332	2.81	19.471	2.79	26.261	2.86	19.817
1863	3.45	23.905	2.72	18.847	4.10	28.409	2.76	19.124
1864	3.87	26.816	3.13	21.688	4.42	30.627	2.56	17.739
1865	2.65	18.362	2.85	19.748	4.05	28.063	3.26	22.589
1866	3.62	25.083	2.64	18.293	4.39	30.419	2.88	19.956
1867	3.15	21.827	2.57	17.808	3.13	21.688	3.44	23.836
1868	2.56	17.739	2.86	19.817	4.13	28.617	2.93	20.233
1869	3.10	21.480	2.83	19.609	4.92	34.091	3.10	21.480
1870	3.87	26.816	3.04	21.065	4.90	33.953	2.88	19.956
1871	3.56	24.668	3.06	21.203	4.60	31.874	4.67	31.848
1872	3.45	23.905	2.72	18.847	3.88	26.885	3.56	24.806
1873	3.88	26.885	2.91	20.164	4.55	31.528	3.13	21.688
1874	3.51	24.321	3.37	23.351	5.76	39.912	2.97	20.579
1875	3.78	26.192	3.24	22.450	6.09	42.198	4.01	27.786
1876	4.20	29.102	3.92	27.162	5.70	39.496	3.73	25.846
1877	3.35	23.213	3.00	20.787	5.16	35.754	3.09	21.411
1878	3.00	20.787	2.58	17.877	3.78	26.192	.....	.....
1879	2.60	18.016	2.18	15.116	3.94	27.301	3.41	23.628
1880	2.47	17.115	2.22	15.383	3.46	23.975	3.25	22.520
1881	3.13	21.688	2.16	14.967	3.45	23.905	3.28	22.728
1882	3.88	26.885	2.28	15.798	3.90	27.024	3.28	22.728
1883	4.25	29.449	3.10	21.480	5.00	34.646	3.49	24.183
1884	3.71	25.707	2.90	20.094	4.14	28.687	2.69	18.639
1885	3.64	25.222	3.80	26.331	4.09	28.340	2.77	19.194
1886	3.94	27.301	3.10	21.480	4.18	28.964	3.13	21.619
1887	3.68	25.499	2.47	17.115	3.16	21.896	3.28	22.728
1888	3.66	25.361	2.50	17.323	3.21	22.242	3.29	22.797
1889	3.49	24.183	2.99	20.718	3.18	22.035	2.77	19.194
1890	3.47	24.044	2.48	17.184	3.47	24.044	2.79	19.332
1891	.....	.....	2.38	16.491	.....	.....	3.06	21.203

TABLE 79.—*Market prices of 9 commodities in Austrian cities from 1840 to 1891, with equivalents in United States money and measures*—Concluded.

9. STRAW.

Year.	In Vienna.		In Salzburg.		In Prague.		In Trieste.	
	Per centner.	Per 2,240 pounds.	Per centner.	Per 2,240 pounds.	Per centner.	Per 2,240 pounds.	Per centner.	Per 2,240 pounds.
	Florins.		*Florins.*		*Florins.*		*Florins.*	
1840	2.22	$15.383	1.09	$7.553	1.37	$9.493	1.78	$12.334
1841	2.31	16.006	1.37	9.493	1.68	11.641	2.03	14.066
1842	2.50	17.323	1.59	11.017	1.97	13.650	1.87	12.957
1843	1.97	13.650	1.59	11.017	1.97	13.650	1.62	11.225
1844	1.50	10.394	1.31	9.077	1.06	7.345	1.44	9.978
1845	1.97	13.650	1.31	9.077	1.09	7.553	1.59	11.017
1846	2.06	14.274	1.44	9.978	1.40	9.701	1.84	12.750
1847	1.93	13.373	1.40	9.701	1.47	10.186	1.78	12.334
1848	2.34	16.214	1.56	10.809	1.28	8.869	2.06	14.274
1849	2.75	19.055	1.72	11.918	1.40	9.701	2.12	14.690
1850	2.25	15.591	1.68	11.641	1.37	9.493	1.81	12.542
1851	2.87	19.887	2.40	16.630	1.53	10.602	1.72	11.918
1852	3.03	20.995	3.15	21.827	1.90	13.165	2.22	15.383
1853	4.43	30.696	2.53	17.531	2.00	13.858	2.31	16.006
1854	3.56	24.668	2.03	14.066	1.93	13.373	1.87	12.957
1855	3.68	25.499	2.34	16.214	1.87	12.957	1.97	13.650
1856	3.00	20.787	2.31	16.006	1.93	13.373	1.84	12.750
1857	3.84	26.608	2.37	16.422	2.25	15.591	1.87	12.957
1858	3.04	21.065	2.42	16.768	2.58	17.877	1.66	11.502
1859	2.92	20.233	2.56	17.739	2.26	15.660	2.22	15.383
1860	2.81	19.471	.....	.....	1.88	13.027	1.93	13.373
1861	2.79	19.332	.....	.....	1.92	13.304	2.09	14.482
1862	3.13	21.688	2.61	18.085	1.92	13.304	1.83	12.680
1863	3.40	23.559	2.60	15.984	2.02	13.997	1.81	12.542
1864	2.61	18.085	2.61	18.085	2.08	14.413	1.72	11.918
1865	2.29	15.868	2.43	16.838	2.20	15.244	1.95	13.512
1866	2.60	15.984	2.39	16.561	2.43	16.838	2.02	13.997
1867	2.15	14.898	2.30	15.937	1.86	12.888	1.74	12.057
1868	1.81	12.542	2.51	17.392	2.52	17.461	2.18	15.105
1869	2.27	15.729	2.47	17.115	2.56	17.739	1.86	12.888
1870	3.76	26.053	2.58	17.877	2.77	19.194	2.51	17.392
1871	3.17	21.965	2.72	18.847	3.10	21.480	3.96	27.439
1872	2.61	18.085	2.57	17.808	2.29	15.868	2.72	18.847
1873	3.47	24.044	2.94	20.372	2.18	14.759	2.54	17.600
1874	2.99	20.718	3.04	21.065	2.51	17.392	2.27	15.729
1875	3.47	24.044	3.24	22.450	3.51	24.321	3.08	21.342
1876	4.28	29.657	3.86	26.746	4.34	30.072	3.74	25.915
1877	2.52	17.461	4.25	29.449	3.56	24.668	2.34	16.214
1878	2.02	13.997	2.52	24.391	2.26	15.660	2.37	16.422
1879	2.40	16.630	2.56	17.739	2.15	14.898	3.25	22.520
1880	2.37	16.422	2.44	16.907	2.10	14.551	3.15	21.827
1881	2.44	16.907	2.87	19.887	2.18	15.105	2.95	20.441
1882	2.29	15.868	2.82	19.540	2.12	14.690	2.95	20.441
1883	2.83	19.609	2.80	19.402	2.90	20.094	2.77	19.194
1884	2.83	19.609	2.70	18.709	3.07	21.272	2.63	18.224
1885	2.39	16.561	3.35	23.213	2.26	15.660	2.40	16.630
1886	3.30	22.866	3.43	23.767	2.41	16.699	3.09	21.411
1887	2.92	20.233	3.31	22.935	1.76	12.195	2.93	20.302
1888	2.65	18.362	2.61	18.085	1.89	13.096	2.73	18.916
1889	2.90	20.094	2.94	20.372	1.90	13.165	2.93	20.302
1890	2.82	19.540	3.00	20.787	2.65	18.362	2.80	19.402
1891	.....	.....	2.82	19.540	.....	.....	2.50	17.323

FRANCE.

The figures relied upon chiefly in France are those of export and import prices. The customs organization of that country includes a very complete and elaborate mechanism for the ascertainment of customs values. In determining the value of imported and exported goods, invoices and bills of lading are taken into consideration only so far as quantities and description are concerned. No attention is paid to the recorded price. A permanent commission of over one hundred members, divided into several sections, is charged with the oversight of the markets. At stated times they meet to fix, on the basis of current prices, the values to be assigned to articles of exportation and importation. These prices are then applied to the quantities declared at the customs offices for the ascertainment of values. Thus the prices may be said to represent a high grade expert opinion upon the subject. The duties of the commission are by no means perfunctory, and a high value is ascribed by economists to the figures which they present as the results of their labors.

We have chosen from the mass of figures which are presented certain main categories which may be carried back to the beginning of the series in 1861. A general attempt to utilize these figures in the form of relative prices has not come to my knowledge. At a later stage of the report, in summing up our general conclusions, we shall endeavor to make a comparison with other price series. For the present it will suffice to offer the actual prices in the following table:

TABLE 80.—*Export prices of 38 commodities in France from 1861 to 1891, with equivalents in United States money and measures.*

Year.	1. Beeves.		2. Cows.		3. Calves.		4. Sheep.		5. Hogs.	
	Per head.	Per head.	Per head.	Per head.	Per head.	Per head.	Per head.	Per head.	Per head.	Per head.
	Francs.		*Francs.*		*Francs.*		*Francs.*		*Francs.*	
1861	492.00	$94.956	295.00	$56.935	78.00	$15.054	42.00	$8.106	115.00	$22.195
1862	450.00	86.850	290.00	55.970	78.00	15.054	40.00	7.720	110.00	21.230
1863	460.00	88.780	300.00	57.900	80.00	15.440	41.00	7.913	110.00	21.230
1864	430.00	82.990	280.00	54.040	70.00	13.510	38.00	7.334	100.00	19.300
1865	442.00	85.306	290.00	55.970	70.00	13.510	39.00	7.527	105.00	20.265
1866	486.00	93.798	310.00	59.830	77.00	14.861	44.00	8.492	110.00	21.230
1867	500.00	96.500	315.00	60.795	78.00	15.054	45.00	8.658	115.00	22.195
1868	510.00	98.430	320.00	61.760	80.00	15.440	46.00	8.878	120.00	23.160
1869	520.00	100.360	320.00	61.760	85.00	16.405	46.00	8.878	125.00	24.125
1870	520.00	100.360	320.00	61.760	85.00	16.405	46.00	8.878	125.00	24.125
1871	525.00	101.325	330.00	63.690	85.00	16.405	48.00	9.264	130.00	25.090
1872	530.00	102.290	340.00	65.620	85.00	16.405	50.00	9.650	122.00	23.546
1873	550.00	106.150	370.00	71.410	95.00	18.335	55.00	10.615	122.00	23.546
1874	500.00	96.500	310.00	59.830	80.00	15.440	50.00	9.650	120.00	23.160
1875	460.00	88.780	285.00	55.005	83.00	16.019	50.00	9.650	125.00	24.125
1876	480.00	92.640	295.00	56.935	90.00	17.370	50.00	9.650	132.00	25.476
1877	480.00	92.640	295.00	56.935	90.00	17.370	51.00	9.843	132.00	25.476
1878	490.00	94.570	300.00	57.900	93.00	17.949	50.00	9.650	115.00	22.195
1879	470.00	90.710	300.00	57.900	90.00	17.370	48.00	9.264	110.00	21.230
1880	450.00	86.850	300.00	57.900	90.00	17.370	47.00	9.071	130.00	25.090
1881	435.00	83.955	285.00	55.005	90.00	17.370	47.00	9.071	125.00	24.125
1882	460.00	88.780	305.00	58.865	95.00	18.335	50.00	9.650	115.00	22.195
1883	465.00	89.745	310.00	59.830	97.00	18.721	50.00	9.650	110.00	21.230
1884	445.00	85.885	300.00	57.900	95.00	18.335	45.00	8.685	105.00	20.265
1885	435.00	83.955	295.00	56.935	95.00	18.335	43.00	8.299	108.00	20.844
1886	430.00	82.990	292.00	56.356	95.00	18.335	41.00	7.913	112.00	21.616
1887	400.00	77.200	270.00	52.110	95.00	18.335	38.00	7.334	102.00	19.686
1888	380.00	73.340	265.00	51.145	95.00	18.335	37.00	7.141	95.00	18.335
1889	430.00	82.990	300.00	57.900	105.00	20.265	42.00	8.106	107.00	20.651
1890	480.00	92.640	330.00	63.690	105.00	20.265	45.00	8.685	112.00	21.616
1891	470.00	90.710	325.00	62.725	105.00	20.265	43.00	8.299	108.00	20.844

Year.	6. Butter.		7. Wheat.		8. Rice.		9. Sesamum.		10. Linseed.	
	Per kilogram.	Per pound.	Per quintal.	Per bushel.	Per kilogram.	Per pound.	Per kilogram.	Per pound.	Per kilogram.	Per pound.
	Francs.		*Francs.*		*Francs.*		*Francs.*		*Francs.*	
1861	3.25	$0.285	.....	.....	0.38	$0.033	0.55	$0.048	0.36	$0.032
1862	3.05	.267	.....	.....	.36	.032	.58	.051	.39	.034
1863	3.20	.280	.....	.....	.36	.032	.55	.048	.42	.037
1864	3.30	.289	.....	.....	.30	.026	.60	.053	.40	.035
1865	3.65	.320	.....	.....	.30	.026	.60	.053	.40	.035
1866	3.50	.306	.....	.....	.35	.031	.54	.047	.42	.037
1867	3.20	.280	25.00	$1.838	.37	.032	.65	.057	.41	.036
1868	3.30	.289	30.00	1.576	.32	.028	.51	.045	.37	.032
1869	3.45	.302	25.00	1.313	.32	.028	.49	.043	.36	.032
1870	3.20	.280	25.10	1.318	.35	.031	.49	.043	.36	.032
1871	3.00	.263	35.00	1.838	.40	.035	.55	.048	.38	.033
1872	3.05	.267	32.50	1.707	.43	.037	.60	.053	.40	.035
1873	3.20	.280	33.50	1.760	.43	.038	.54	.047	.38	.033
1874	3.00	.263	30.00	1.576	.35	.031	.46	.040	.36	.032
1875	3.15	.276	26.00	1.366	.50	.044	.41	.036	.35	.031
1876	3.20	.280	27.00	1.418	.52	.046	.46	.040	.31	.027
1877	3.10	.271	31.00	1.628	.54	.047	.46	.040	.36	.032
1878	2.95	.258	29.00	1.523	.54	.047	.46	.040	.37	.032
1879	2.95	.258	30.90	1.623	.56	.049	.45	.039	.33	.029
1880	3.10	.271	30.00	1.576	.56	.049	.48	.042	.33	.029
1881	3.10	.271	29.50	1.550	.54	.047	.45	.039	.32	.028
1882	3.30	.289	28.75	1.510	.53	.046	.39	.034	.28	.025
1883	3.30	.289	24.92	1.309	.55	.048	.36	.032	.28	.025
1884	3.20	.280	22.44	1.179	.55	.048	.36	.032	.28	.025
1885	3.10	.271	20.38	1.071	.55	.048	.37	.032	.29	.025
1886	3.00	.263	21.75	1.142	.35	.031	.33	.029	.26	.022
1887	2.85	.250	23.75	1.248	.35	.031	.32	.028	.25	.022
1888	2.85	.250	24.00	1.261	.30	.026	.30	.026	.28	.025
1889	2.85	.250	23.65	1.242	.38	.033	.31	.027	.27	.024
1890	2.85	.250	25.00	1.313	.37	.032	.33	.029	.28	.025
1891	2.85	.250	26.50	1.392	.37	.032	.35	.031	.27	.024

TABLE 80.—*Export prices of 38 commodities in France from 1861 to 1891, with equivalents in United States money and measures*—Continued.

Year.	11. Olive oil.		12. Sugar, brown native.		13. Tobacco, leaf.		14. Coffee.		15. Skins, large raw.	
	Per kilogram.	Per pound.	Per kilogram.	Per pound.	Per kilogram.	Per pound.	Per kilogram.	Per pound.	Per kilogram.	Per pound.
	Francs.		*Francs.*		*Francs.*		*Francs.*		*Francs.*	
1861	2.00	$0.175	0.69	$0.060	0.90	$0.079	1.40	$0.123	1.80	$0.158
1862	2.00	.175	.65	.057	.90	.079	1.60	.140	1.75	.153
1863	2.00	.175	.65	.057	.90	.079	1.60	.140	1.70	.149
1864	2.00	.175	.65	.057	.90	.079	1.63	.143	1.60	.140
1865	1.60	.140	.50	.044	.90	.079	1.60	.140	1.45	.127
1866	1.50	.131	.52	.046	.90	.079	1.75	.153	1.47	.129
1867	1.62	.142	.51	.045	.90	.079	1.50	.131	1.45	.127
1868	1.50	.131	.52	.046	.90	.079	1.45	.127	1.50	.131
1869	1.35	.118	.58	.051	.90	.079	1.45	.127	1.34	.117
1870	1.40	.123	.58	.051	.90	.079	1.50	.131	1.34	.117
1871	1.55	.136	.68	.060	.85	.074	1.60	.140	1.50	.131
1872	1.65	.144	.66	.058	1.30	.114	1.88	.165	2.00	.175
1873	1.25	.109	.62	.054	1.20	.105	2.22	.194	1.90	.166
1874	1.20	.105	.55	.048	1.20	.105	2.28	.200	2.00	.175
1875	1.65	.144	.53	.046	.50	.044	2.19	.192	2.20	.193
1876	1.55	.136	.56	.049	.60	.053	2.02	.177	2.00	.175
1877	1.75	.153	.67	.059	.70	.061	2.07	.181	2.00	.175
1878	1.60	.140	.56	.049	.90	.079	1.87	.164	1.85	.162
1879	1.50	.131	.55	.048	.65	.057	1.78	.156	2.00	.175
1880	1.50	.131	.64	.056	.58	.051	1.69	.148	2.00	.175
1881	1.50	.131	.64	.056	.75	.066	1.51	.132	2.00	.175
1882	1.25	.109	.64	.056	.65	.057	1.34	.117	2.10	.184
1883	1.35	.118	.60	.053	.95	.083	1.39	.122	2.25	.197
1884	1.50	.131	.47	.041	1.40	.123	1.22	.107	2.20	.193
1885	1.50	.131	.47	.041	1.40	.123	1.17	.102	2.20	.193
1886	1.50	.131	.32	.028	1.40	.123	1.51	.132	2.10	.184
1887	1.43	.125	.33	.029	1.40	.123	2.07	.181	1.80	.158
1888	1.35	.118	.37	.032	1.25	.109	1.94	.170	1.62	.142
1889	1.28	.112	.40	.035	1.22	.107	2.22	.194	1.70	.149
1890	1.26½	.110	.32	.028	.75	.066	2.30	.201	1.95	.171
1891	1.04	.091	.36	.032	.75	.066	2.12½	.186	1.95	.171

Year.	16. Skins, sheep, raw.		17. Skins, lamb, raw.		18. Skins, kid, raw.		19. Coal.		20. Iron ore.	
	Per kilogram.	Per pound.	Per kilogram.	Per pound.	Per kilogram.	Per pound.	Per quintal.	Per 2,240 pounds.	Per kilogram.	Per 2,240 pounds.
	Francs.		*Francs.*		*Francs.*		*Francs.*		*Francs.*	
1861	1.40	$0.123	1.75	$0.153	8.50	$0.744	1.05	$2.059	0.40	$7.844
1862	1.85	.162	2.15	.188	9.00	.788	1.15	2.255	.40	7.844
1863	1.85	.162	2.15	.188	12.00	1.051	1.15	2.255	.30	5.883
1864	1.80	.158	2.05	.179	12.00	1.051	1.15	2.255	.30	5.883
1865	1.40	.123	1.75	.153	14.00	1.226	1.15	2.255	.30	5.883
1866	1.55	.136	4.00	.350	15.00	1.313	1.15	2.255	.30	5.883
1867	1.20	.105	3.50	.306	14.00	1.226	1.15	2.255	.30	5.883
1868	1.10	.096	3.50	.306	10.00	.875	1.15	2.255	.20	3.922
1869	.95	.083	3.50	.306	10.00	.875	1.15	2.255	.20	3.922
1870	.95	.083	3.50	.306	10.00	.875	1.15	2.255	.20	3.922
1871	1.10	.096	4.00	.350	11.00	.963	.87	1.706	.20	3.922
1872	1.40	.123	4.00	.350	9.00	.788	.87	1.706	.20	3.922
1873	1.80	.158	4.20	.368	8.50	.744	2.00	3.922	.15	2.941
1874	2.00	.175	4.20	.368	8.50	.744	1.60	3.138	.12	2.353
1875	2.10	.184	4.20	.368	8.50	.744	1.60	3.138	.10	1.961
1876	1.85	.162	3.90	.341	8.00	.700	1.60	3.138	.08	1.569
1877	1.70	.149	3.80	.333	7.00	.613	1.55	3.040	.07	1.373
1878	1.70	.149	3.40	.298	7.60	.665	1.30	2.549	.06	1.176
1879	1.85	.162	3.40	.298	7.60	.665	1.25	2.451	.06	1.176
1880	2.00	.175	3.40	.298	7.60	.665	1.50	2.941	.06	1.176
1881	2.20	.193	3.40	.298	7.40	.648	1.50	2.941	.07	1.372
1882	2.50	.219	3.40	.298	7.40	.648	1.90	3.726	.07	1.372
1883	3.00	.263	3.50	.306	7.40	.648	1.50	2.941	.06	1.176
1884	3.00	.263	3.15	.276	7.40	.648	1.50	2.941	.06	1.176
1885	2.70	.236	2.90	.254	7.40	.648	1.40	2.745	.06	1.176
1886	2.50	.219	2.60	.228	6.75	.591	1.30	2.549	.06	1.176
1887	2.25	.197	2.35	.206	6.40	.560	1.30	2.549	.06	1.176
1888	2.25	.197	2.55	.223	6.40	.560	1.50	2.941	.06	1.176
1889	2.45	.214	2.75	.240	6.40	.560	2.30	4.510	.06	1.176
1890	2.70	.236	2.85	.250	6.15	.538	2.23	4.373	.06	1.176
1891	2.95	.258	2.95	.258	5.75	.503	1.50	2.941	.06	1.176

TABLE 80.—*Export prices of 38 commodities in France from 1861 to 1891, with equivalents in United States money and measures*—Continued.

Year.	21. Copper ore.		22. Lead ore.		23. Zinc.		24. Cotton.		25. Cotton batting.	
	Per kilogram.	Per 2,240 pounds.	Per kilogram.	Per 2,240 pounds.	Per kilogram.	Per pound.	Per kilogram.	Per pound.	Per kilogram.	Per pound.
	Francs.		*Francs.*		*Francs.*		*Francs.*		*Francs.*	
1861	1.05	$205.892	0.40	$78.435	0.12	$0.011	2.20	$0.193	3.25	$0.285
1862	1.05	205.892	.40	78.435	.10	.009	3.80	.333	5.00	.438
1863	1.00	196.088	.40	78.435	.10	.009	4.80	.420	6.00	.525
1864	1.00	196.088	.40	78.435	.10	.009	4.80	.420	6.60	.578
1865	1.00	196.088	.40	78.435	.10	.009	3.30	.289	5.00	.438
1866	1.00	196.088	.40	78.435	.10	.009	3.48	.305	5.00	.438
1867	1.00	196.088	.25	49.022	.12½	.011	2.45	.214	3.00	.263
1868	.25	49.022	.25	49.022	.12½	.011	2.22	.194	3.00	.263
1869	.25	49.022	.25	49.022	.12½	.011	2.65	.232	3.60	.315
1870	.25	49.022	.25	49.022	.12	.011	2.30	.201	3.30	.289
1871	.45	88.240	.25	49.022	.12	.011	1.85	.162	2.30	.201
1872	.50	98.044	.28	54.905	.16	.014	2.33	.204	2.30	.201
1873	.40	78.435	.30	58.826	.19	.017	2.13	.186	2.15	.188
1874	.37	72.553	.28	54.905	.16	.014	1.81	.158	2.00	.175
1875	.40	78.435	.29	56.866	.17	.015	1.52	.133	2.00	.175
1876	.35	68.631	.28	54.905	.15	.013	1.45	.127	1.90	.166
1877	.30	58.826	.26	50.983	.13	.011	1.46	.128	1.85	.162
1878	.27	52.944	.20	39.218	.09½	.008	1.46	.128	1.85	.162
1879	.25	49.022	.18	35.296	.08	.007	1.53	.134	1.90	.166
1880	.27	52.944	.19½	38.242	.10	.009	1.64	.144	2.00	.175
1881	.25	49.022	.17½	34.320	.08	.007	1.48	.130	1.90	.166
1882	.26	50.983	.16½	32.360	.08½	.007	1.50	.132	1.80	.158
1883	.24	47.061	.14½	28.438	.07	.006	1.38	.121	1.80	.158
1884	.20	39.218	.12½	24.515	.06½	.006	1.46	.128	1.46	.128
1885	.18	35.296	.13	25.491	.07	.006	1.37	.120	1.37	.120
1886	.10	19.609	.14	27.452	.08	.007	1.20	.105	1.80	.158
1887	.10	19.609	.14	27.452	.08	.007	1.32	.116	1.80	.158
1888	.70	137.262	.15	29.413	.10	.009	1.30	.114	1.60	.140
1889	.60	117.653	.15	29.413	.17	.015	1.45	.127	1.55	.136
1890	1.20	235.306	.20	39.218	.21	.018	1.46	.128	1.53	.134
1891	1.00	196.088	.17	33.335	.21	.018	1.16	.102	1.50	.131

Year.	26. Wool.		27. Silk in cocoons.		28. Silk, unbleached, raw.		29. Silk, unbleached, thrown.		30. Cotton thread, simple, unbleached.	
	Per kilogram.	Per pound.	Per kilogram.	Per pound.	Per kilogram.	Per pound.	Per kilogram.	Per pound.	Per kilogram.	Per pound.
	Francs.		*Francs.*		*Francs.*		*Francs.*		*Francs.*	
1861	3.00	$0.263	18.00	$1.576	55.50	$4.859	78.00	$6.828	4.10	$0.359
1862	3.75	.328	19.25	1.685	59.00	5.165	83.50	7.310	6.00	.525
1863	4.20	.368	17.00	1.488	56.50	4.946	77.50	6.785	7.50	.657
1864	3.95	.346	20.50	1.795	65.50	5.734	87.50	7.660	7.75	.678
1865	3.50	.306	23.50	2.057	76.50	6.697	100.00	8.754	5.93	.519
1866	3.10	.271	22.50	1.970	76.00	6.653	98.00	8.579	5.50	.481
1867	2.60	.228	26.50	2.320	81.50	7.135	105.00	9.192	4.00	.350
1868	2.30	.201	29.50	2.583	84.00	7.354	115.00	10.068	6.00	.525
1869	2.10	.184	26.50	2.320	72.00	6.303	102.00	8.930	6.38	.559
1870	2.30	.201	23.50	2.057	68.00	5.953	98.00	8.579	6.00	.525
1871	3.00	.263	19.50	1.707	80.00	7.004	105.00	9.192	5.93	.519
1872	3.20	.280	20.50	1.795	90.00	7.004	112.00	9.805	5.28	.462
1873	3.00	.263	18.00	1.576	68.00	5.953	95.00	8.317	5.07	.444
1874	2.90	.254	12.50	1.094	54.00	4.727	77.00	6.741	4.90	.429
1875	2.80	.245	10.50	.919	51.50	4.509	72.00	6.303	5.05	.442
1876	2.50	.219	17.00	1.488	68.50	5.997	87.00	7.616	4.30	.376
1877	2.60	.228	14.00	1.226	57.00	4.990	74.00	6.478	3.95	.346
1878	2.60	.228	14.00	1.226	50.00	4.377	65.00	5.690	3.56	.312
1879	3.00	.263	15.00	1.313	52.00	4.552	70.00	6.128	3.60	.315
1880	3.50	.306	13.50	1.182	49.00	4.290	65.00	5.690	3.55	.311
1881	3.00	.263	13.00	1.138	52.00	4.552	69.00	6.041	3.52	.308
1882	2.35	.206	13.00	1.138	50.00	4.377	65.00	5.690	3.60	.315
1883	2.30	.201	12.50	1.094	47.00	4.115	60.00	5.253	3.47	.304
1884	2.20	.193	11.50	1.007	44.00	3.852	56.00	4.902	3.37	.295
1885	1.80	.158	11.00	.963	41.00	3.589	53.00	4.640	3.20	.280
1886	2.15	.188	11.75	1.029	41.00	3.589	55.00	4.815	3.00	.263
1887	2.00	.175	11.25	.985	39.50	3.458	53.50	4.684	3.00	.263
1888	2.05	.179	10.25	.897	38.50	3.370	52.50	4.596	3.00	.263
1889	2.25	.197	11.50	1.007	41.50	3.633	54.00	4.727	3.00	.263
1890	2.25	.197	12.00	1.051	43.00	3.764	51.00	4.465	3.05	.267
1891	2.08	.182	10.25	.897	35.00	3.064	46.00	4.027	2.70	.236

TABLE 80.—*Export prices of 38 commodities in France from 1861 to 1891, with equivalents in United States money and measures*—Concluded.

Year.	31. Woollen yarn.		32. Silk goods, pure, figured.		33. Silk goods, mixed.		34. Merinos.	
	Per kilogram.	Per pound.	Per kilogram.	Per pound.	Per kilogram.	Per pound.	Per kilogram.	Per pound.
	Francs.		*Francs.*		*Francs.*		*Francs.*	
1861	10.00	$0.875	135.00	$11.818	76.00	$6.653	21.00	$1.838
1862	10.00	.875	133.00	11.643	70.00	6.128	20.75	1.817
1863	11.50	1.007	127.00	11.118	75.00	6.566	21.00	1.891
1864	12.50	1.094	135.00	11.818	78.00	6.828	22.00	1.926
1865	10.15	.849	148.00	12.957	86.00	7.529	18.00	1.576
1866	11.50	1.007	147.00	12.869	84.00	7.354	24.00	2.101
1867	8.00	.700	151.00	13.219	83.00	7.266	20.50	1.795
1868	7.50	.657	155.00	13.569	85.00	7.441	17.00	1.488
1869	7.00	.613	170.00	14.883	86.00	7.529	17.00	1.488
1870	7.50	.657	161.00	14.095	82.00	7.179	17.80	1.541
1871	9.00	.788	165.00	14.445	84.50	7.397	18.40	1.611
1872	10.50	.919	172.00	15.058	94.00	8.229	21.50	1.882
1873	10.50	.919	164.00	14.357	100.00	8.754	19.75	1.729
1874	10.00	.875	147.00	12.869	82.00	7.179	18.15	1.589
1875	9.75	.854	154.00	13.482	82.00	7.179	17.30	1.515
1876	9.00	.788	148.00	12.957	80.00	7.004	16.50	1.444
1877	8.50	.744	146.00	12.781	72.00	6.303	15.70	1.374
1878	8.25	.722	129.00	11.293	56.00	4.902	14.70	1.287
1879	7.85	.687	125.00	10.943	49.00	4.290	14.10	1.234
1880	8.60	.753	124.00	10.855	48.00	4.202	15.30	1.339
1881	7.85	.687	128.00	11.206	48.00	4.202	13.65	1.195
1882	8.00	.700	138.00	12.081	45.00	3.939	14.05	1.230
1883	7.50	.657	144.00	12.606	46.00	4.027	13.65	1.195
1884	7.30	.639	120.00	10.505	43.00	3.764	12.55	1.099
1885	6.50	.569	102.00	8.930	37.00	3.239	9.90	.867
1886	7.35	.643	104.00	9.105	38.00	3.327	10.25	.897
1887	7.45	.652	101.00	8.842	36.00	3.152	9.90	.867
1888	7.30	.639	100.00	8.754	33.00	2.889	10.00	.875
1889	8.00	.700	104.00	9.105	34.00	2.977	11.25	.985
1890	7.50	.657	98.00	8.579	35.00	3.064	10.50	.919
1891	6.30	.552	98.00	8.579	37.00	3.239	9.30	.814

Year.	35. Blankets.		36. Carpets.		37. Tapestry.		38. Gloves.	
	Per kilogram.	Per pound.	Per kilogram.	Per pound.	Per kilogram.	Per pound.	Per kilogram.	Per pound.
	Francs.		*Francs.*		*Francs.*		*Francs.*	
1861	7.50	$0.657	13.50	$1.182	.....	.....	85.00	$7.441
1862	7.25	.635	14.50	1.269	.....	.....	85.00	7.441
1863	7.25	.635	15.05	1.318	.....	.....	95.00	8.317
1864	7.25	.635	15.05	1.318	.....	.....	90.00	7.879
1865	7.70	.674	16.50	1.444	.....	.....	110.00	9.630
1866	7.70	.674	16.50	1.444	.....	.....	175.00	15.330
1867	7.34	.643	14.50	1.269	.....	.....	180.00	15.758
1868	7.00	.613	13.35	1.169	.....	.....	168.00	14.707
1869	6.70	.587	12.23	1.071	.....	.....	170.00	14.883
1870	6.70	.587	12.85	1.125	.....	.....	170.00	14.883
1871	7.95	.696	14.00	1.226	.....	.....	175.00	15.330
1872	8.30	.727	15.20	1.331	.....	.....	175.00	15.330
1873	7.90	.692	15.20	1.331	.....	.....	175.00	15.330
1874	7.80	.683	13.45	1.177	110.00	$9.630	175.00	15.330
1875	7.70	.674	13.45	1.177	110.00	9.630	175.00	15.330
1876	8.10	.709	12.05	1.055	90.00	7.879	160.00	14.007
1877	7.90	.692	12.05	1.055	90.00	7.879	152.00	13.307
1878	7.90	.692	11.45	1.002	85.80	7.485	152.00	13.307
1879	7.50	.657	11.45	1.002	85.50	7.485	152.00	13.307
1880	7.75	.678	9.89	.866	85.00	7.441	152.00	13.307
1881	7.50	.657	8.90	.779	61.00	5.340	152.00	13.307
1882	7.70	.674	8.50	.744	61.00	5.340	149.00	13.044
1883	7.70	.674	8.50	.744	61.00	5.340	149.00	13.044
1884	7.40	.648	8.50	.744	61.00	5.340	149.00	13.044
1885	7.30	.639	8.00	.700	60.00	5.253	149.00	13.044
1886	7.15	.626	8.00	.700	60.00	5.253	149.00	13.044
1887	6.40	.560	7.00	.613	60.00	5.253	142.00	12.431
1888	6.35	.556	7.00	.613	60.00	5.253	142.00	12.431
1889	6.50	.569	6.65	.582	60.00	5.253	142.00	12.431
1890	6.42	.562	6.10	.534	60.00	5.253	142.00	12.431
1891	5.60	.490	5.40	.473	60.00	5.253	142.00	12.431

ITALY.

In 1886 the statistical bureau of Italy published an interesting volume upon prices of certain food products in Italian markets.(a) It comprises the weekly prices in several Italian markets from 1862 to 1885 of wheat, corn, rice, wine, olive oil, and beef. The publication is noteworthy by the wealth of detail in which the facts are presented. We find in the figures a confirmation of the general movements of prices. In some cases a compilation has been made, but in others the number of points given was small and an average was not made. The main facts are reproduced in the following table:

TABLE 81.—*Prices in gold of 6 commodities in Italy from 1862 to 1885.*

Year.	Wheat, price for Italy.		Corn, price for Italy.		Rice, price in Vercelli.		Wine, first quality, price in Florence.		Olive oil, first quality, price in Porto Maurizio.		Beef, first quality, price at Carmagnola, Milan, Bergamo, Padua, and Naples.	
	Per quintal.	Per bushel.	Per quintal.	Per bushel.	Per quintal.	Per pound.	Per hectolitre.	Per quart.	Per hectolitre.	Per quart.	Per kilogram.	Per pound.
	Lire.		*Lire.*		*Lire.*		*Lire.*		*Lire.*		*Lire.*	
1862	28.52	$1.498	19.91	$0.976	29.51	$0.026	56.06	$0.102	164.75	$0.301	1.17	$0.102
1863	26.36	1.385	14.31	.702	27.72	.024	62.09	.113	170.14	.311	1.18	.103
1864	25.57	1.343	15.50	.760	29.93	.026	63.15	.115	159.51	.291	1.23	.108
1865	24.01	1.261	15.12	.741	29.85	.026	52.72	.096	159.21	.291	1.21	.106
1866	25.91	1.361	16.33	.801	30.85	.027	46.16	.084	164.06	.300	1.14	.100
1867	29.11	1.529	19.30	.946	32.40	.028	60.48	.110	189.36	.346	1.13	.099
1868	29.81	1.566	17.57	.861	30.30	.027	47.67	.087	175.72	.321	1.20	.105
1869	24.76	1.301	12.55	.615	28.11	.025	65.41	.119	171.59	.313	1.29	.113
1870	24.48	1.286	14.22	.697	26.01	.023	46.15	.084	175.17	.320	1.28	.112
1871	29.77	1.564	19.81	.971	29.40	.026	56.53	.103	147.13	.269	1.24	.109
1872	30.18	1.586	22.42	1.099	33.63	.029	58.73	.107	155.28	.284	1.35	.118
1873	32.69	1.717	19.08	.935	33.91	.030	95.53	.174	140.77	.257	1.65	.144
1874	33.46	1.758	24.42	1.197	33.82	.030	83.72	.153	139.83	.255	1.59	.139
1875	26.09	1.371	15.01	.736	29.81	.026	49.68	.091	136.94	.250	1.50	.131
1876	27.19	1.428	15.16	.743	34.74	.030	46.44	.085	135.34	.247	1.51	.132
1877	31.36	1.648	15.89	.975	35.00	.031	53.98	.099	150.58	.275	1.47	.129
1878	29.34	1.541	20.48	1.004	32.54	.028	39.16	.072	136.89	.250	1.46	.128
1879	28.83	1.515	18.51	.907	32.73	.029	35.13	.064	138.27	.253	1.42	.124
1880	30.13	1.583	22.13	1.085	34.30	.030	49.63	.091	136.74	.250	1.45	.127
1881	26.69	1.402	18.66	.915	29.60	.026	53.94	.099	153.06	.280	1.57	.137
1882	25.56	1.343	20.02	.981	28.70	.025	44.61	.081	111.06	.203	1.49	.130
1883	23.74	1.247	17.32	.849	29.26	.026	44.90	.082	130.97	.239	1.55	.136
1884	22.29	1.171	14.94	.732	30.66	.027	47.38	.087	130.95	.239	1.57	.137
1885	22.01	1.156	14.10	.691	27.83	.024	65.72	.120	138.99	.254	1.55	.136

a Movimento dei prezzi di alcuni generi alimentari dal 1862 al 1885, Rome, 1886.

OTHER COUNTRIES.

A diligent search was made for prices in other countries. For this purpose a correspondence was entered into with the heads of statistical bureaus in Switzerland, Holland, Denmark, Norway, and Sweden. None of them, however, could furnish figures covering any considerable period or number of articles. We are indebted to these gentlemen for some useful references and for some quite interesting isolated statistics, but it was impracticable to present them in such form as to add value to the present report, as the element of continuity was lacking.

COMPARISON WITH UNITED STATES.

We have produced a great variety of prices relating to European countries and shown the most diversified forms of index numbers or relative price combinations. Each of these has in turn been compared with the results of our investigation of prices in the United States. Only one of these series, the prices of Hamburg, can be compared with our prices as respects the scope and number of articles included. As concerns the material itself there are none which include so many articles of everyday consumption as the figures which we have presented. This is the distinctive mark of the work of the committee that it is not confined to raw products and that manufactured articles play such an important part in it. Herein it differs widely from the European statistics which we have considered.

The facts which we have just cited render it impossible to institute international comparisons upon the basis which has been used for the United States. The articles which figure in the Economist list are in a measure common to all. We can compare on this basis the prices of the United States, England, and Hamburg. To them we may add the French prices, though the latter begin in 1861. The comparison is, of course, not absolute, but since in the other countries 1861 differed but little from 1860, the figures are not without value.

In preparing the following table which gives side by side the relative prices for the United States, England, Hamburg, and France, it has not always been possible to maintain the identity of the description. However, in every case we have articles of the same class or type. One peculiarity of the Economist list is the importance ascribed to cotton and its manufactures. Not only are two quotations for raw cotton given, but cotton yarn and cotton cloth figure in the list. In other countries we have been obliged to repeat the cotton quotations. Cotton yarn and cotton cloth have been taken as cotton manufactures, and are replaced by other manufactures of cotton in the list. In the table, however, an exact indication is given of the quality. It should be noted that an average is always composed in our table of an average of relative price series. It is not a series of relative prices based upon an average price. In order to construct this table it was necessary to secure certain additional prices in the United States, printed in Table XXI.

With these preliminary explanations we give Table 82, which as the summary and condensation of our work merits careful attention.

TABLE 82.—*Comparative relative prices in the United States, England, Hamburg, and France.*

Year.	1. Coffee.				2. Sugar.			
	United States.	England.	Hamburg.	France.	United States.	England.	Hamburg.	France.
	Rio, fair (Table 1).	Jamaica, ordinary to fine ordinary (Table 56)	Coffee (Table 66)	Coffee (Table 80)	Fair refining (Table 1).	Average of two grades (Table 56)	Raw sugar (Table 66)	Sugar, brown native (Table 80)
1860	100.0	100.0	100.0	.....	100.0	100.0	100.0	.....
1861	100.0	103.1	100.7	100.0	74.1	99.9	82.9	100.0
1862	156.5	116.3	110.6	114.3	106.9	88.8	82.5	94.2
1863	243.5	121.7	115.5	114.3	131.0	83.8	81.8	94.2
1864	293.5	115.5	113.6	116.4	165.5	108.2	101.3	94.2
1865	378.3	122.5	107.0	114.3	244.8	83.5	84.4	72.5
1866	160.9	120.2	99.7	125.0	158.6	93.2	80.9	75.4
1867	139.1	113.2	89.2	107.1	134.5	84.0	81.8	73.9
1868	113.0	117.0	79.0	103.6	158.3	95.4	87.9	75.4
1869	76.1	96.1	81.1	103.6	155.2	93.2	101.7	84.1
1870	80.4	101.6	82.3	107.1	144.8	107.2	96.7	84.1
1871	91.3	95.3	91.5	114.3	127.6	106.9	135.7	98.6
1872	145.7	110.1	119.6	134.3	125.9	108.5	98.5	95.7
1873	147.8	130.2	144.2	158.6	125.9	97.1	95.2	89.9
1874	217.4	176.7	152.3	162.9	101.7	88.6	93.7	79.7
1875	160.9	131.8	147.9	156.4	110.3	88.8	86.1	76.8
1876	152.2	139.5	136.3	144.3	110.3	79.2	89.0	81.2
1877	173.9	134.9	140.9	147.9	131.0	115.9	104.8	97.1
1878	154.3	138.8	122.3	133.6	101.7	65.1	103 3	81.2
1879	128.3	109.3	111.5	127.1	87.9	71.6	95.2	79.7
1880	134.8	114.7	117.2	120.7	105.2	83.7	95.2	92.8
1881	115.2	93.0	101.9	107.9	106.9	74.2	94.1	92.8
1882	91.3	76.0	82.1	95.7	103.4	79.8	91.8	92.8
1883	69.6	61.2	82.0	99.3	95.7	70.6	86.6	87.0
1884	106.5	80.6	81.7	87.1	84.5	68.0	68.2	68.1
1885	84.8	71.3	74.6	83.6	65.5	44.8	49.4	68.1
1886	71.7	65.1	81.4	107.9	76.7	60.4	44.6	46.4
1887	128.3	100.8	126.0	147.9	63.8	45.8	46.8	47.8
1888	163.0	126.4	110.7	138.6	70.7	59.4	45.0	53.6
1889	147.8	131.0	130.4	158.6	67.2	60.4	62.3	58.0
1890	165.2	141.1	140.8	164.3	67.2	43.4	52.0	46.4
1891	166.2	131.0	133.8	151.8	62.9	45.8	53.0	52.2

TABLE 82.—*Comparative relative prices in the United States, England, Hamburg, and France*—Continued.

Year.	3. Tea.				4. Tobacco.			
	United States. Average of six grades (Table XXI).	England. Congou, middling common to fair good (Table 56)	Hamburg. Tea (Table 66)	France.	United States. Average of several grades (Table 33)	England. Virginia leaf (Table 56)	Hamburg. Tobacco (Table 66)	France. Tobacco, leaf (Table 80)
1860	100.0	100.0	100.0	.....	100.0	100.0	100.0	.....
1861	102.0	93.3	78.4	.....	95.3	88.9	112.9	100.0
1862	161.5	78.3	88.6	.....	186.9	125.9	119.6	100.0
1863	181.9	78.3	92.9	.....	178.3	214.8	94.3	100.0
1864	219.9	76.7	82.9	.....	200.2	214.8	93.9	100.0
1865	361.7	66.7	76.6	.....	125.8	.....	78.9	100.0
1866	301.5	86.7	73.6	.....	107.7	125.9	72.5	100.0
1867	283.8	66.7	90.6	.....	137.9	133.3	80.5	100.0
1868	279.3	110.0	89.6	.....	166.5	133.3	84.7	100.0
1869	289.3	123.3	81.9	.....	168.0	111.1	97.0	100.0
1870	289.3	128.3	73.3	.....	158.1	111.1	93.6	100.0
1871	200.8	123.3	72.9	.....	137.5	103.7	96.6	94.4
1872	189.0	120.0	78.2	.....	181.0	125.9	113.7	144.4
1873	165.5	120.0	74.3	.....	215.5	129.6	102.8	133.3
1874	148.0	73.3	73.6	.....	180.2	122.2	102.8	133.3
1875	119.7	73.3	75.9	.....	160.8	170.4	98.9	55.6
1876	123.0	71.7	74.0	.....	145.7	170.4	102.6	66.7
1877	114.2	73.3	63.2	.....	148.9	140.7	93.3	77.8
1878	114.2	70.0	59.4	.....	137.4	125.9	93.3	100.0
1879	80.8	68.3	66.4	.....	119.3	103.7	88.0	72.2
1880	86.9	86.7	62.9	.....	137.8	118.5	94.6	94.4
1881	81.6	61.7	57.5	.....	134.4	107.4	90.5	83.3
1882	65.8	55.0	57.0	.....	141.1	155.6	90.7	72.2
1883	64.4	46.7	55.7	.....	138.2	163.0	77.8	102.6
1884	64.4	56.7	56.4	.....	152.6	140.7	85.7	155.6
1885	64.4	48.3	54.8	.....	122.3	151.9	87.0	155.6
1886	67.8	57.5	54.0	.....	100.6	137.0	88.4	155.6
1887	61.4	45.0	47.4	.....	122.5	133.3	79.9	155.6
1888	61.4	40.0	54.7	.....	110.8	163.0	79.4	138.9
1889	59.9	43.3	54.2	.....	122.2	148.1	86.2	125.6
1890	64.4	38.3	52.6	.....	129.8	148.1	90.7	83.3
1891	63.9	43.3	56.9	.....	140.0	163.0	84.8	83.3

TABLE 82.—*Comparative relative prices in the United States, England, Hamburg, and France*—Continued.

Year.	5. Wheat.				6. Meats.			
	United States. Average of several grades (Table 33).	England. English Gazette (Table 56).	Hamburg. Wheat (Table 66).	France.	United States. Average of beef loins, beef ribs, mutton, and lamb (Table 1).	England. Average of four grades (Table 56).	Hamburg. Average of beef and mutton (Table 66).	France. Average of beeves, cows, and sheep (Table 80).
1860	100.0	100.0	100.0	.....	100.0	100.0	100.0	.....
1861	92.3	121.3	106.7	.....	91.1	111.8	105.2	100.0
1862	86.7	142.8	100.3	.....	89.5	111.7	118.3	95.0
1863	101.2	103.8	86.5	.....	95.9	68.9	117.4	97.6
1864	116.4	90.2	72.4	.....	115.1	106.3	119.6	90.9
1865	140.5	85.7	75.0	.....	170.8	112.0	112.3	93.7
1866	115.9	104.7	88.3	.....	155.8	116.9	126.9	102.9
1867	213.4	136.2	123.4	.....	156.2	111.6	131.8	105.2
1868	193.0	152.5	118.5	.....	177.9	103.0	130.1	107.2
1869	119.1	115.3	90.6	.....	159.9	107.2	133.8	107.9
1870	84.7	96.9	87.2	.....	164.4	112.5	137.2	107.9
1871	118.2	119.1	104.0	.....	159.9	123.2	147.1	111.0
1872	118.5	125.3	108.2	.....	158.8	125.2	166.3	114.0
1873	130.3	127.5	112.6	.....	150.2	131.7	151.8	122.7
1874	121.5	139.6	101.2	.....	145.1	132.4	157.5	108.6
1875	94.6	100.0	89.0	.....	143.1	126.4	161.2	103.0
1876	101.3	102.5	92.2	.....	136.7	139.9	177.6	105.5
1877	117.2	115.8	105.6	.....	122.1	125.8	177.4	106.3
1878	106.6	117.0	93.0	.....	119.6	123.5	174.7	106.8
1879	84.2	89.6	92.7	.....	110.7	116.0	164.1	103.8
1880	112.3	106.2	94.4	.....	110.5	109.1	171.0	101.7
1881	93.3	98.1	96.4	.....	117.5	133.8	163.3	99.0
1882	116.4	100.2	88.6	.....	118.0	110.7	173.3	105.3
1883	88.8	92.6	81.0	.....	113.6	133.7	180.3	106.2
1884	83.5	88.3	72.8	.....	125.2	120.7	169.1	99.7
1885	71.1	72.3	66.5	.....	118.6	112.9	155.2	96.9
1886	74.0	68.5	65.4	.....	112.6	94.8	157.4	94.7
1887	73.6	79.2	65.2	.....	112.5	100.3	147.5	87.8
1888	71.0	69.6	67.7	.....	110.5	97.9	148.2	85.0
1889	86.0	68.7	62.2	.....	113.4	101.2	152.1	96.4
1890	70.8	67.5	64.5	.....	116.1	109.9	161.6	105.5
1891	87.7	73.8	81.8	.....	111.1	115.4	159.1	102.7

TABLE 82.—*Comparative relative prices in the United States, England, Hamburg, and France*—Continued.

Year.	7. Silk.				8. Flax and hemp.			
	United States. Silk, raw Italian (Table XXI).	England. Raw Cosimbuzar (Table 56).	Hamburg. Silk (Table 66).	France. Average of silk in cocoons and raw, unbleached (Table 80).	United States. Hemp (Table 33).	England. Average of flax and hemp (Table 56).	Hamburg. Average of flax and hemp (Table 66).	France.
1860	100.0	100.0	100.0	.....	100.0	100.0	100.0	.....
1861	100.0	77.1	93.4	100.0	56.0	110.7	101.9	.....
1862	72.2	91.4	77.3	106.6	84.0	112.5	104.3	.....
1863	75.0	95.7	95.3	98.1	108.0	118.8	118.3	.....
1864	69.4	91.4	97.3	116.0	.....	119.8	106.6	.....
1865	88.9	102.9	104.9	134.2	188.0	108.5	81.8	.....
1866	102.8	131.4	109.7	131.0	240.0	118.2	118.0	.....
1867	105.6	120.0	131.0	147.0	.....	102.3	116.5	.....
1868	100.0	105.7	136.6	157.7	160.0	109.9	121.7	.....
1869	111.1	120.0	131.8	138.5	156.0	114.4	120.7	.....
1870	94.4	114.3	120.4	126.6	176.0	103.7	110.8	.....
1871	88.9	120.0	120.4	126.2	120.0	103.7	108.1	.....
1872	100.0	114.3	132.9	129.0	84.0	101.9	104.6	.....
1873	97.2	111.4	132.9	111.3	96.0	106.4	95.4	.....
1874	83.3	97.1	100.3	83.4	128.0	105.0	99.9	.....
1875	66.7	75.7	88.4	75.6	116.0	89.9	100.6	.....
1876	66.1	57.1	104.6	108.9	88.0	96.6	95.0	.....
1877	88.9	122.9	111.8	90.3	100.0	95.7	108.9	.....
1878	66.7	94.3	90.6	84.0	76.0	112.5	93.2	.....
1879	55.6	74.3	76.6	88.5	80.0	82.0	100.0	.....
1880	69.4	88.6	89.1	81.7	104.0	85.2	75.2	.....
1881	61.7	85.7	84.5	83.0	96.0	64.7	90.7	.....
1882	66.7	92.1	80.2	81.2	84.0	70.0	86.6	.....
1883	61.1	82.9	88.2	77.1	88.0	63.1	91.7	.....
1884	58.3	77.1	82.0	71.6	88.0	73.5	102.0	.....
1885	52.8	58.6	76.9	67.5	140.0	75.8	104.7	.....
1886	55.6	61.4	71.2	69.6	108.0	73.4	97.6	.....
1887	44.4	85.7	60.4	66.9	92.0	75.1	78.4	.....
1888	52.8	77.1	76.2	63.2	76.0	41.5	74.0	.....
1889	50.0	72.1	96.5	69.4	96.0	42.3	78 2	.....
1890	50.0	75.0	60.6	72.1	104.0	64.2	74.4	.....
1891	55.6	85.7	60.8	60.0	92.0	35.4	68.1	.....

TABLE 82.—*Comparative relative prices in the United States, England, Hamburg, and France*—Continued.

Year.	9. Wool.				10. Indigo.			
	United States. Average of 2 grades (Table 1).	England. Average of 3 grades (Table 56)	Hamburg. Wool. (Table 66)	France. Wool. (Table 80)	a United States. Average of 4 grades (Table XXI).	England.	Hamburg. Indigo (Table 66)	France.
1860	100.0	100.0	100.0	.....	100.0	.....	100.0	.....
1861	81.2	110.7	89.7	100.0	89.6	.....	105.6	.....
1862	99.7	92.4	96.5	125.0	177.2	.....	115.8	.....
1863	157.4	96.7	92.4	140.0	148.4	.....	91.8	.....
1864	184.3	100.3	77.3	131.7	143.2	.....	95.4	.....
1865	171.3	104.7	82.6	116.7	211.8	.....	92.6	.....
1866	133.4	94.9	76.6	103.3	136.8	.....	103.9	.....
1867	111.4	95.8	68.7	86.7	138.1	.....	103.8	.....
1868	93.1	80.8	72.4	76.7	142.0	.....	111.5	.....
1869	96.5	76.8	66.5	70.0	176.6	.....	123.3	.....
1870	92.8	71.0	70.4	76.7	162.1	.....	124.9	.....
1871	109.8	65.6	75.9	100.0	140.1	.....	115.9	.....
1872	154.1	93.7	89.6	106.7	138.6	.....	115.0	.....
1873	118.6	105.8	78.8	100.0	114.1	.....	100.8	.....
1874	115.0	98.8	69.7	96.7	98.4	.....	105.0	.....
1875	107.0	102.2	72.6	93.3	103.7	.....	103.2	.....
1876	90.2	92.3	62.6	83.3	103.9	.....	92.6	.....
1877	91.4	96.7	63.3	86.7	104.2	.....	93.4	.....
1878	80.8	84.8	69.9	86.7	96.5	.....	89.5	.....
1879	75.7	75.9	66.4	100.0	89.3	.....	88.7	.....
1880	109.1	85.7	65.9	116.7	93.3	.....	92.8	.....
1881	97.9	86.3	66.7	100.0	97.4	.....	99.0	.....
1882	94.9	82.3	60.3	78.3	100.2	.....	96.9	.....
1883	89.7	78.0	56.8	76.7	100.2	.....	92.6	.....
1884	80.8	74.9	46.4	73.3	100.2	.....	87.0	.....
1885	72.1	71.8	46.8	60.0	103.6	.....	77.5	.....
1886	76.3	70.5	43.3	71.7	107.4	.....	79.2	.....
1887	78.7	87.2	42.7	66.7	107.4	.....	76.8	.....
1888	71.7	76.4	35.4	68.3	90.6	.....	74.4	.....
1889	79.8	71.5	38.4	75.0	78.6	.....	85.2	.....
1890	77.5	82.7	40.4	75.0	78.6	.....	66.0	.....
1891	75.4	79.8	39.5	69.3	78.6	.....	76.0	.....

a Prices in Table XXI on the gold basis are here reduced to currency.

TABLE 82.—*Comparative relative prices in the United States, England, Hamburg, and France*—Continued.

Years.	11. Oils.				12. Timber.			
	United States. Palm oil (Table XXI).	England. Average of seal, olive, and palm (Table 56).	Hamburg. Average of palm, olive, and rape seed (Table 66).	France. Average of linseed, olive, and sesamum (Table 80).	United States. Average of hemlock boards, maple boards, and pine lumber, in the log (Table 1).	England. Average of 2 grades (Table 56).	Hamburg.	France.
1860	100.0	100.0	100.0	.....	100.0	100.0	.....	.....
1861	100.0	109.6	98.5	100.0	116.8	102.9	.....	.....
1862	100.0	107.5	100.4	104.6	142.4	101.0	.....	.....
1863	123.5	114.4	92.4	105.6	173.0	106.0	.....	.....
1864	117.6	107.1	95.0	106.7	178.0	104.6	.....	.....
1865	235.3	107.0	95.3	100.1	177.8	99.5	.....	.....
1866	152.9	115.9	105.7	96.6	168.2	93.9	.....	.....
1867	123.5	113.9	101.2	104.4	140.6	97.3	.....	.....
1868	126.5	109.9	103.6	90.2	135.8	95.5	.....	.....
1869	132.4	100.6	96.6	85.5	135.8	99.0	.....	.....
1870	120.6	102.8	103.4	86.4	135.8	100.7	.....	.....
1871	97.1	91.7	109.0	94.4	158.5	116.8	.....	.....
1872	82.4	97.9	93.0	100.9	153.7	118.4	.....	.....
1873	94.1	96.7	84.3	88.8	160.8	129.4	.....	.....
1874	85.3	88.8	84.6	81.2	151.3	127.6	.....	.....
1875	94.1	91.5	85.7	84.7	146.6	133.9	.....	.....
1876	97.1	94.9	89.1	82.4	137.0	130.2	.....	.....
1877	91.2	91.7	95.5	90.4	130.6	130.8	.....	.....
1878	94.1	95.9	93.1	88.8	133.1	134.3	.....	.....
1879	85.3	82.1	83.9	82.8	136.1	116.8	.....	.....
1880	73.5	83.6	81.4	84.7	137.3	109.5	.....	.....
1881	67.6	76.3	78.4	81.9	137.3	111.3	.....	.....
1882	76.5	75.3	79.2	70.4	137.8	113.2	.....	.....
1883	73.5	84.4	84.0	70.3	133.7	109.7	.....	.....
1884	88.2	88.1	81.1	72.8	133.6	102.8	.....	.....
1885	76.5	74.5	72.3	74.3	133.6	104.2	.....	.....
1886	58.8	68.9	64.1	67.5	134.2	93.6	.....	.....
1887	58.8	61.1	65.8	66.4	136.0	88.5	.....	.....
1888	55.9	59.5	62.7	66.6	137.2	88.5	.....	.....
1889	61.8	65.6	66.9	65.1	139.5	112.8	.....	.....
1890	60.3	66.0	70.2	67.0	140.7	111.6	.....	.....
1891	67.6	69.7	71.7	68.5	139.5	105.8	.....	.....

TABLE 82.—*Comparative relative prices in the United States, England, Hamburg, and France.*—Continued.

Year.	13. Tallow.				14. Leather.			
	United States. Tallow, prime, city (Table 1).	England. St. Petersburg, first Y. C. (Table 56).	Hamburg. Tallow (Table 66).	France.	United States. Average of harness and sole (Table 1).	England. English butts (Table 56).	Hamburg. Leather (Table 66).	France. Average of 4 skins, large, sheep, lamb, and kid (Table 80).
1860	100.0	100.0	100.0	.....	100.0	100.0	100.0	.....
1861	82.9	103.0	96.1	.....	92.2	94.0	84.6	100.0
1862	92.7	88.4	86.6	.....	101.5	96.0	92.6	114.5
1863	101.2	76.7	76.6	.....	124.5	96.0	93.6	122.7
1864	125.6	70.7	73.1	.....	162.3	96.0	99.9	119.0
1865	175.6	70.7	77.5	.....	170.7	94.0	98.0	111.3
1866	122.0	84.5	76.9	.....	155.4	94.0	110.8	149.4
1867	111.0	76.7	86.1	.....	143.7	92.0	80.9	132.8
1868	106.1	74.1	83.7	.....	133.1	98.0	67.2	119.9
1869	117.1	84.5	83.4	.....	137.5	98.0	76.6	115.0
1870	98.8	79.3	82.6	.....	134.6	92.0	77.4	115.0
1871	87.8	77.6	82.0	.....	129.4	92.0	72.1	130.0
1872	89.0	84.5	80.7	.....	124.4	96.0	83.6	136.4
1873	85.4	74.1	78.5	.....	130.6	104.0	76.4	143.6
1874	75.6	70.7	77.0	.....	127.8	106.2	89.2	148.5
1875	87.2	81.9	81.2	.....	118.0	110.0	69.8	153.1
1876	95.1	91.4	82.0	.....	110.3	106.0	73.1	140.1
1877	84.1	77.6	80.1	.....	108.9	104.0	68.7	110.5
1878	74.4	68.1	76.2	.....	99.3	108.0	59.5	127.0
1879	64.6	62.9	66.2	.....	98.6	104.0	60.4	131.7
1880	65.9	77.6	64.9	.....	118.7	104.0	68.8	134.4
1881	59.1	67.7	68.8	.....	115.4	104.0	71.8	137.4
1882	80.5	78.4	81.2	.....	112.9	100.0	72.7	144.2
1883	78.0	84.5	83.8	.....	109.5	100.0	82.3	155.6
1884	75.6	88.8	70.7	.....	111.3	100.0	84.8	150.9
1885	59.1	71.6	65.1	.....	104.3	104.0	75.4	142.0
1886	47.6	60.3	53.1	.....	102.6	100.0	76.9	130.8
1887	40.2	53.4	52.2	.....	98.6	98.0	75.4	117.6
1888	42.7	55.2	49.3	.....	94.8	96.0	70.2	117.9
1889	61.0	66.4	58.1	.....	92.0	94.0	77.6	125.5
1890	43.3	66.4	52.1	.....	87.7	94.0	81.9	109.1
1891	45.1	67.2	52.1	.....	86.4	94.0	78.2	128.8

TABLE 82.—*Comparative relative prices in the United States, England, Hamburg and France*—Continued.

Year.	15. Copper.				16. Iron.			
	United States. Copper ingot (Table 1).	England. Tough cake (Table 56)	Hamburg. Copper (Table 66)	France. Copper ore (Table 80)	United States. Bar iron (Table 1).	England. Average of bar iron, 2 grades (Table 56)	Hamburg. Bar iron (Table 66)	France. Iron ore (Table 89)
1860	100.0	100.0	100.0	.....	100.0	100.0	100.0	.....
1861	80.9	91.5	94.0	100.0	103.5	102.1	94.5	100.0
1862	112.8	96.0	92.6	100.0	119.9	98.2	94.6	100.0
1863	131.9	86.6	87.5	95.2	155.0	102.1	100.0	75.0
1864	160.6	96.4	95.4	95.2	249.3	118.4	112.5	75.0
1865	208.5	79.5	87.3	95.2	181.3	112.1	110.5	75.0
1866	174.5	94.6	91.6	95.2	167.0	111.7	107.7	75.0
1867	119.1	76.8	82.2	95.2	148.2	98.4	102.7	75.0
1868	89.4	67.9	75.3	23.8	145.8	94.6	96.0	30.0
1869	100.5	69.6	76.2	23.8	139.0	93.5	95.1	30.0
1870	92.6	65.2	74.0	23.8	134.4	99.3	100.9	30.0
1871	95.7	63.4	76.2	42.8	133.7	97.4	100.3	30.0
1872	117.0	80.4	93.0	47.6	166.2	113.0	141.5	30.0
1873	144.7	82.6	93.8	38.1	147.1	155.0	175.6	27.5
1874	106.4	82.1	87.1	35.2	115.7	183.4	115.3	20.0
1875	98.9	82.1	89.7	38.1	103.6	149.3	121.1	25.0
1876	98.9	78.6	88.9	33.3	88.6	132.4	105.3	20.0
1877	83.0	72.8	83.8	28.6	77.5	112.4	94.0	17.5
1878	74.5	63.4	74.2	25.7	75.3	98.1	89.6	15.0
1879	67.6	56.7	66.5	23.8	88.3	83.3	89.3	15.0
1880	90.4	63.6	64.5	25.7	102.3	101.6	84.9	15.0
1881	81.9	59.2	66.2	23.8	98.3	86.7	82.1	17.5
1882	87.2	67.4	70.1	24.8	104.5	96.5	90.3	17.5
1883	76.6	62.9	66.7	22.9	85.6	88.6	82.6	15.0
1884	63.8	55.6	61.1	19.0	75.0	84.6	77.3	15.0
1885	47.3	47.3	54.3	17.1	68.6	92.3	73.1	15.0
1886	51.1	39.3	50.6	9.5	73.4	80.3	69.6	15.0
1887	51.1	38.2	47.3	9.5	84.0	76.9	71.1	15.0
1888	75.0	71.9	65.9	66.7	76.6	83.7	73.3	15.0
1889	74.5	70.3	54.0	57.1	73.9	86.5	83.3	15.0
1890	61.2	50.2	53.9	114.3	78.3	112.4	87.7	15.0
1891	59.6	52.3	54.6	95.2	72.4	96.9	86.0	15.0

TABLE 82.—*Comparative relative prices in the United States, England, Hamburg, and France*—Continued.

Year.	17. Lead.				18. Tin.			
	United States.	England.	Hamburg.	France.	a United States.	England.	Hamburg.	France.
	Lead, pig, average of 2 grades (Table 1).	English pig (Table 56)	Lead (Table 66)	Lead ore (Table 80)	Banca pig (Table XI).	English bars (Table 56)	Tin (Table 66)	Zinc (Table 80)
1860	100.0	100.0	100.0	.....	100.0	100.0	100.0	.....
1861	96.0	98.3	98.2	100.0	118.3	98.6	88.6	100.0
1862	121.8	92.0	93.8	100.0	100.0	87.1	86.2	83.3
1863	144.4	98.9	93.5	100.0	131.3	83.5	93.7	83.3
1864	208.4	95.5	96.6	100.0	160.9	81.3	80.6	83.3
1865	218.7	90.9	92.1	100.0	225.0	71.2	71.7	83.3
1866	173.5	97.7	96.5	100.0	124.8	74.8	65.0	83.3
1867	166.2	90.9	90.0	62.5	101.0	61.2	67.2	104.2
1868	166.5	88.6	95.6	62.5	112.6	69.1	69.7	104.2
1869	154.4	86.4	93.4	62.5	131.4	79.9	87.3	104.2
1870	130.7	86.4	96.6	62.5	125.1	84.9	93.2	100.0
1871	123.8	81.8	92.6	62.5	129.7	97.1	99.9	100.0
1872	119.0	86.4	126.6	70.0	144.9	110.1	112.5	133.3
1873	130.4	107.0	148.7	75.0	130.3	105.0	107.5	158.3
1874	125.5	110.8	106.3	70.0	111.4	87.8	76.9	133.3
1875	124.5	109.1	118.4	72.5	91.5	72.7	71.7	141.7
1876	119.3	104.0	113.0	70.0	84.6	61.2	66.7	125.0
1877	100.7	100.0	104.0	65.0	64.7	58.3	59.0	108.3
1878	69.5	86.9	96.5	50.0	55.5	52.2	52.9	79.2
1879	71.0	66.5	87.9	45.0	53.1	47.1	53.1	66.7
1880	94.2	89.2	87.2	48.8	73.4	67.6	64.5	83.3
1881	78.8	69.3	73.4	43.8	76.6	67.6	67.8	66.7
1882	87.2	69.9	71.5	41.3	76.6	82.4	72.2	70.8
1883	78.2	65.9	67.8	36.3	75.0	70.5	71.6	58.3
1884	65.0	55.7	59.1	31.3	66.4	63.7	65.0	54.2
1885	64.6	51.1	61.0	32.5	59.4	55.6	60.9	58.3
1886	80.1	57.4	61.7	35.0	66.4	69.8	61.3	66.7
1887	73.7	58.8	74.7	35.0	59.4	74.6	66.9	66.7
1888	80.1	71.9	77.4	37.5	.....	106.5	75.8	83.3
1889	66.2	60.2	88.3	37.5	70.3	78.0	65.1	141.7
1890	70.2	65.1	115.2	50.0	69.4	74.1	64.1	175.0
1891	72.8	60.8	106.9	42.5	62.3	.....	63.3	175.0

a The gold prices in the series are here reduced to currency.

TABLE 82.—*Comparative relative prices in the United States, England, Hamburg, and France*—Continued.

Year.	19. Cotton.				20. Cotton yarn.			
	United States. Upland, middling. (Table 1).	England. Average of upland, middling, fair; Dhollerah; and Pernambuco (Table 56).	Hamburg. Cotton (Table 66).	France. Cotton (Table 80).	United States. Cotton manufactures. Average of print cloths, sheetings, shirtings, and calico (Table 1).	England. Mule No. 40, fair, second quality (Table 56).	Hamburg. Cotton yarn (Table 66).	France. Cotton batting (Table 80).
1860	100.0	100.0	100.0	.....	100.0	100.0	100.0	.....
1861	109.1	116.3	125.5	100.0	90.2	102.0	104.5	100.0
1862	327.3	184.7	231.2	172.7	143.0	120.4	132.1	153.8
1863	613.6	378.3	365.6	218.2	216.8	244.9	216.7	184.6
1864	736.4	415.4	426.0	218.2	461.9	277.6	240.0	223.1
1865	1,090.9	422.7	228.7	150.0	422.2	257.1	199.7	153.8
1866	468.2	348.6	256.1	158.2	291.7	244.9	197.2	153.8
1867	322.7	252.3	197.5	111.4	203.1	171.4	175.9	92.3
1868	152.3	118.8	152.0	100.9	167.5	93.9	168.9	92.3
1869	236.4	178.5	188.0	120.5	166.6	118.4	167.9	110.8
1870	220.7	187.9	168.1	104.5	140.6	122.4	157.7	101.5
1871	138.6	132.9	144.2	84.1	135.3	110.2	155.5	70.8
1872	185.2	140.8	163.3	105.9	142.7	118.4	157.3	70.8
1873	186.4	138.4	150.2	96.8	131.5	122.4	148.9	66.2
1874	147.7	122.1	144.7	82.8	113.7	108.2	131.6	61.5
1875	130.7	111.7	128.4	69.1	101.8	96.9	122.2	61.5
1876	120.5	114.1	108.6	65.9	80.6	96.0	109.9	58.5
1877	114.8	97.4	108.9	66.4	85.5	93.9	107.1	56.9
1878	102.3	95.7	108.7	66.4	73.5	82.7	103.9	56.9
1879	86.4	77.2	110.8	69.5	74.2	69.4	102.8	58.5
1880	115.9	114.5	119.6	74.5	84.3	87.8	110.4	61.5
1881	108.0	109.5	107.7	67.3	79.9	87.8	108.3	58.5
1882	108.0	104.0	109.1	68.2	79.5	87.8	108.0	58.4
1883	92.6	90.6	98.7	62.7	74.7	79.6	102.1	55.4
1884	94.9	92.9	100.5	66.4	67.4	78.6	102.0	44.9
1885	100.6	94.8	100.1	62.3	63.5	79.6	96.5	43.2
1886	83.5	82.0	94.2	54.5	66.6	66.3	90.3	55.4
1887	86.4	80.3	90.2	60.0	63.7	68.4	90.1	55.4
1888	96.0	87.2	96.9	59.1	74.0	71.4	91.2	49.2
1889	86.4	89.9	100.2	65.9	72.7	74.5	92.8	47.7
1890	93.2	93.5	97.5	64.4	68.9	73.5	95.0	47.1
1891	84.7	81.5	96.0	52.7	65.9	77.0	95.0	46.2

TABLE 82.—*Comparative relative prices in the United States, England, Hamburg, and France*—Concluded.

Year.	21. Cotton cloth.				22. Cotton.			
	United States.	England.	Hamburg.	France.	United States.	England.	Hamburg.	France.
	Manufactures, repeated from No. 20 of this table.	Average of 2 grades (Table 56)	Piece goods, plain (Table 66)	Cotton thread (Table 80)	Upland, middling (Table 35)	Pernambuco (Table 56)	Cotton (Table 66) repeated from No. 19 of this table.	Cotton (Table 80) repeated from No. 19 of this table.
1860	100.0	100.0	100.0	.....	100.0	100.0	100.0	.....
1861	90.2	100.8	97.7	100.0	198.8	105.9	125.5	100.0
1862	143.0	103.8	118.4	146.3	522.5	152.9	231.2	172.7
1863	216.8	177.5	160.8	182.9	781.5	276.5	365.6	218.2
1864	461.9	224.9	187.4	189.0	1,119.1	329.4	426.0	218.2
1865	422.3	200.7	163.4	144.6	453.2	317.6	228.7	150.0
1866	291.7	181.0	164.7	134.1	365.3	258.8	256.1	158.2
1867	203.1	141.5	133.7	97.6	198.8	185.3	197.5	111.4
1868	167.5	89.6	118.8	146.3	247.4	86.8	152.0	100.9
1869	166.6	103.3	122.7	155.6	254.3	135.3	188.0	120.5
1870	140.6	105.6	114.9	146.3	156.1	139.7	168.1	104.5
1871	135.3	92.9	107.8	144.6	182.7	102.9	144.2	84.1
1872	142.7	98.9	113.6	128.8	173.4	116.2	163.3	105.9
1873	131.5	99.9	111.6	123.7	169.9	122.1	150.2	96.8
1874	113.7	90.8	104.2	119.5	143.4	102.9	144.7	82.3
1875	101.8	91.3	101.3	123.2	121.4	92.6	128.4	69.1
1876	90.6	87.9	91.6	104.9	101.7	102.9	108.6	65.9
1877	85.5	90.4	91.6	96.3	102.9	80.1	108.9	66.4
1878	73.5	79.7	89.3	86.8	99.4	79.4	108.7	66.4
1879	74.2	69.3	85.8	87.8	96.0	69.1	110.8	69.5
1880	84.3	73.9	88.3	86.6	106.4	85.3	119.6	74.5
1881	79.9	80.1	85.8	85.9	109.2	83.1	107.7	67.3
1882	79.5	79.0	87.7	87.8	105.8	80.1	109.1	68.2
1883	74.7	72.5	84.5	84.6	98.3	75.0	98.7	62.7
1884	67.4	69.1	79.9	82.2	93.6	72.1	100.5	66.4
1885	63.5	66.4	75.4	78.0	93.1	73.5	100.1	62.3
1886	66.6	69.0	71.5	73.2	87.9	63.2	94.2	54.5
1887	63.7	68.2	73.5	73.2	87.9	62.6	90.2	60.0
1888	74.0	69.1	73.5	73.2	96.5	68.4	99.9	59.1
1889	72.7	70.1	72.5	73.2	100.6	70.6	100.2	65.9
1890	68.9	71.9	74.4	74.4	96.0	80.1	97.5	66.4
1891	65.9	70.9	74.8	65.9	80.3	67.6	95.0	52.7

Year.	Total.				
	United States.	United States.	England.	Hamburg.	France.
	Currency, 22 articles.	Gold, 22 articles.	21 articles.	21 articles.	16 articles.
1860	100.0	100.0	100.0	100.0	.....
1861	98.2	98.2	102.0	99.3	100.0
1862	124.9	121.9	109.0	112.7	117.7
1863	197.0	135.8	135.9	130.1	136.9
1864	268.8	172.9	144.8	137.8	128.6
1865	275.6	127.5	135.5	111.9	112.2
1866	194.0	138.5	133.0	118.0	115.1
1867	154.6	114.9	115.3	111.1	100.4
1868	151.5	109.4	99.3	105.5	94.5
1869	153.6	113.3	105.0	109.7	97.0
1870	140.3	115.7	105.5	106.3	93.6
1871	131.4	118.7	100.3	107.7	94.2
1872	138.0	126.5	108.8	116.9	104.6
1873	136.5	121.1	114.6	114.9	102.5
1874	125.3	112.5	110.2	105.6	94.0
1875	113.8	101.2	103.9	103.0	87.4
1876	105.8	102.7	102.4	98.2	84.7
1877	105.5	99.3	101.5	98.4	82.0
1878	94.5	93.2	94.1	92.5	78.4
1879	86.7	86.7	80.7	111.9	76.4
1880	100.5	100.5	92.2	91.1	79.2
1881	95.4	95.4	86.1	88.5	76.0
1882	96.2	96.2	83.4	86.0	73.4
1883	89.1	89.1	84.6	86.5	73.5
1884	88.5	88.5	82.5	82.6	72.4
1885	83.2	83.2	77.2	77.5	69.7
1886	80.4	80.4	73.3	74.8	68.3
1887	81.3	81.3	75.3	75.1	70.7
1888	81.0	81.0	80.0	76.4	73.5
1889	85.1	85.1	79.6	81.2	69.5
1890	84.8	84.6	82.8	80.7	69.2
1891	83.4	83.4	81.0	80.4	73.2

No attempt can be made here to follow the variation of prices for the individual articles. It should be remembered that we are here concerned with commodities dealt in internationally, and the prices may be considered as quotations from different points of the world's market. The similarity of the quotations is very striking, and it is rare that a divergence in tendency is shown.

If we turn our attention to the summary, we find that the range of variation in the 1891 price is very small—between 79.2 for France and 83.4 for the United States. It will be observed that the prices for the United States are uniformly a few points higher than for the other countries.

The course of prices is well indicated in the following table, giving the maxima and minima in each decade and the entire period for each country. In this table we use the gold prices for the United States:

TABLE 83.—*Fluctuations of prices in different countries.*

Place.	1860–1869.				1870–1879.			
	Maximum.		Minimum.		Maximum.		Minimum.	
	Year.	Price.	Year.	Price.	Year.	Price.	Year.	Price.
United States	1864	172.9	1861	98.2	1872	126.5	1879	86.7
England	1864	144.8	1868	99.3	1873	114.6	1879	86.7
Hamburg	1864	137.8	1861	99.3	1872	116.9	1878	92.5
France	1864	128.6	1868	94.5	1872	104.6	1879	76.4

Place.	1880–1891.				1860–1891.			
	Maximum.		Minimum.		Maximum.		Minimum.	
	Year.	Price.	Year.	Price	Year.	Price.	Year.	Price.
United States	1880	100.5	1886	80.4	1864	172.9	1886	80.4
England	1880	92.2	1886	73.3	1864	144.8	1886	73.3
Hamburg	1880	91 1	1886	74.8	1864	137.8	1886	74.8
France	1880, 1891	79.2	1886	69.3	1864	128.6	1886	69.3

From this table it appears that the greatest fluctuation in price is shown in the United States. In the other countries the fluctuation in price during the period has been much the same but somewhat less marked than in the United States. For all countries the maximum relative price during the period has been much the same, and somewhat less than in the United States. For all countries the maximum relative price occurred in 1864 and the minimum in 1886. In each period the movement is quite similar in the different countries. In the period 1880 to 1891 the French price shows the highest figure in each of these extreme years. It is proper to remark that the averages for 1890 and 1891 were much affected by the rise in the price of copper and zinc which was most extreme in France.

WAGES IN EUROPE.

No comparison from the point of view adopted by the committee would be complete without a parallel for wages as well as prices between Europe and the United States. It is greatly to be regretted that the materials for such a comparison were not to be found. Wage statistics so far as they exist in Europe are confined to a single period, and nowhere can a continuous series be obtained. The volume of wage sta-

tistics from 1830 to 1886, published by the Board of Trade of Great Britain, is a conspicuous example. It contains a great many quotations, made independently at different times and different places. The most assiduous efforts to construct from them a continuous table for even the most common occupations met with failure. In continental countries we met with a similar result. A few series of figures for manual labor in Austria from 1830 to 1891 are found in the same publication as the prices. They relate to a single class of labor only. Mention should also be made of efforts made in Italy to collect statistics of wages historically. Unfortunately, their range is small. Elsewhere there are no traces of wage statistics which follow even at a great distance the ideas which guided the collection of statistics in the United States.

Under the circumstances we must abandon any attempt to draw a parallel with the United States in regard to the course of wages.

CONCLUSION.

The report contains some tables which have not been subjected to an analysis. They are drawn from the records of government purchases, and present comparisons with the main table. Since, however, there is considerable difficulty in forming continuous series of these prices, it was not felt that a special analysis would add weight to any of the results obtained.

I take this opportunity of expressing my great indebtedness for their assistance, in completing the collection of European prices, to Herr Heinz, director of the bureau of commercial statistics in Hamburg, through whose courtesy the Hamburg price figures are presented in the report with great thoroughness, Mr. W. F. Willoughby, of the Department of Labor, who secured the French prices, and to Dr. Samuel M. Lindsay, to whose efficient services I owe a very complete and satisfactory statement of prices in England and Germany.

I can not close this work without testifying to my deep appreciation of the assistance rendered by the Department of Labor, under whose supervision the very elaborate and laborious clerical work of the investigation has been carried on. In season and out of season their assistance has been given with a uniform courtesy, for which I am under great obligations.

Respectfully submitted.

ROLAND P. FALKNER.

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures.*

Year.	1. Aloes.		2. Antimony.		3. Oranges.		4. Arrack.		5. Asphalt.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	72 45	$0.078	94.06	$0.102	41.00	$0.044	52.13	$0.056	10.86	$0.012
1851	72.99	.079	92.26	.100	47.97	.052	47.74	.052	15.36	.017
1852	79 63	.086	88.15	.095	31.44	.034	44.64	.048	14.68	.016
1853	104 08	.112	86.03	.093	31.51	.034	54.43	.059	15.08	.016
1854	129.19	.139	96.03	.104	36.12	.039	60.90	.066	12.76	.014
1855	130 81	.141	61.02	.066	33.38	.036	79.81	.086	15.01	.016
1856	109 48	.118	138.21	.149	29.32	.032	78.70	.085	16.21	.017
1857	91 54	.099	117.15	.126	35.63	.038	77.63	.084	9.60	.010
1858	66 60	.072	101.93	.110	31.42	.034	52.86	.057	8.54	.009
1859	78 34	.085	104.48	.113	31.46	.034	45.21	.049	10.98	.012
1860	76 53	.082	.....	.....	32.91	.036	45.29	.049	11.60	.013
1861	78 41	.085	81.95	.088	30.66	.033	56.49	.061	16.10	.017
1862	67 60	.073	73.57	.079	32.19	.035	47.61	.051	11.63	.013
1863	102 96	.111	67.71	.073	32.21	.035	60.58	.065	12.46	.013
1864	103 74	.111	69.44	.075	31.42	.034	64.39	.070	11.26	.012
1865	100 53	.108	75.37	.081	29.83	.032	56.21	.061	8.13	.009
1866	93 48	.101	72.84	.079	40.93	.044	54.22	.059	11.57	.012
1867	67 76	.073	78.09	.084	39.74	.043	60.87	.066	12.07	.013
1868	86 21	.092	85.54	.092	39.25	.042	67.49	.073	12.93	.014
1869	84 48	.070	97.93	.106	37.06	.040	76.62	.083	17.18	.019
1870	148 83	.160	148.91	.161	39.46	.043	69.61	.075	23.46	.025
1871	68 08	.073	77.60	.084	40.31	.044	60.22	.065	13.67	.015
1872	77 47	.084	134.39	.167	31.56	.034	54.50	.059	18.88	.020
1873	81 80	.088	132.24	.143	34.56	.037	70.51	.076	10.06	.011
1874	84 18	.091	106.91	.115	36.02	.039	85.92	.093	10.39	.011
1875	84 71	.091	111.57	.120	31.93	.034	83.00	.090	8.97	.010
1876	89 26	.096	151.50	.164	31.94	.034	85.35	.092	8.23	.009
1877	90 85	.098	148 97	.161	29.52	.032	87.66	.095	7.78	.008
1878	90 79	.103	124.16	.134	29.17	.031	75.87	.082	7.75	.008
1879	90 79	.097	107.61	.116	26.13	.028	57.15	.062	7.61	.008
1880	100 62	.109	145 51	.157	28.53	.031	65.79	.071	6.88	.007
1881	109 40	.118	135.24	.146	25.45	.027	56.91	.061	6.30	.007
1882	113 77	.120	114.77	.124	27.39	.030	96.76	.104	7.00	.008
1883	90 73	.103	99.26	.107	25.15	.027	47.73	.052	6.86	.007
1884	102 79	.112	82 81	.089	22.08	.024	74.02	.080	6.56	.007
1885	99 54	.076	107.13	.116	20.86	.023	63.33	.068	6.73	.007
1886	77 74	.077	99 36	.107	18.82	.020	73.69	.080	6.58	.007
1887	84 75	.009	83.78	.090	19.08	.021	76.60	.083	6.30	.007
1888	97 57	.063	94.66	.102	17.42	.019	68.91	.074	6.23	.007
1889	89 71	.065	111.46	.120	15.19	.016	70.30	.076	8.69	.009
1890	93 80	.060	136.14	.147	16.49	.018	74.90	.081	8.83	.010
1891	90 54	.060	133.14	.144	19.41	.021	72.63	.078	10.61	.011

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	6. Balsam, copaiba.		7. Balsam, Peru.		8. Cotton.		9. Laurel leaves.		10. Tin plate.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	248.55	$0.268	1,330.78	$1.437	133.37	$0.144	29.91	$0.032	54.52	$0.059
1851	277.61	.300	1,311.61	1.416	105.07	.113	27.67	.030	62.69	.068
1852	327.56	.354	1,213.68	1.310	99.45	.107	25.07	.027	57.49	.062
1853	455.66	.492	1,146.00	1.237	108.44	.117	35.91	.039	61.11	.066
1854	298.22	.322	1,296.22	1.399	88.64	.096	33.32	.036	63.74	.069
1855	250.57	.271	1,174.15	1.268	89.47	.097	35.39	.038	63.57	.069
1856	269.72	.291	1,143.65	1.235	107.25	.116	38.28	.041	73.23	.079
1857	368.64	.398	1,121.25	1.210	125.54	.136	34.92	.038	76.68	083
1858	402.33	.434	1,165.71	1.258	116.49	.126	26.40	.029	67.12	072
1859	430.71	.465	1,096.50	1.184	109.61	.118	26.69	.029	67.67	.073
1860	420.82	.454	1,074.47	1.160	102.29	.110	27.93	.030	63.73	.069
1861	348.36	.376	1,097.08	1.184	125.69	.136	34.02	.037	62.97	.068
1862	346.80	.374	1,109.61	1.198	231.29	.250	30.77	.033	56.76	.061
1863	297.35	.321	1,132.22	1.222	386.70	.417	27.51	.030	57.54	.062
1864	352.07	.380	1,119.23	1.208	438.72	.474	30.87	.033	59.98	.065
1865	352.69	.381	901.56	.973	223.32	.241	33.83	.037	58.40	.063
1866	400.20	.432	1,171.50	1.265	262.63	.284	37.69	.041	62.54	.068
1867	358.85	.387	2,554.24	2.757	202.87	.219	37.16	.040	55.10	.059
1868	339.44	.366	2,310.45	2.494	146.37	.158	31.46	.034	52.58	.057
1869	359.81	.388	2,715.38	2.931	192.62	.208	33.64	.036	54.67	.059
1870	379.07	.409	2,123.25	2.292	172.12	.186	33.40	.036	55.29	.060
1871	380.96	.411	1,853.57	2.001	147.08	.159	42.94	.046	56.70	.061
1872	430.67	.465	1,955.75	2.111	166.70	.180	44.16	.049	79.68	.086
1873	497.93	.538	1,932.50	2.086	152.36	.164	44.34	.048	77.36	.084
1874	534.50	.577	1,582.16	1.708	148.75	.161	48.03	.052	70.97	.077
1875	562.98	.608	1,307.85	1.412	130.89	.141	38.49	.042	64.29	.069
1876	426.24	.460	1,037.38	1.120	110.75	.120	35.61	.038	55.64	.060
1877	387.43	.418	1,013.24	1.094	110.22	.119	40.89	.044	53.54	.058
1878	351.28	.379	992.70	1.072	109.11	.118	33.02	.036	43.17	.047
1879	297.42	.321	1,161.85	1.254	112.93	.122	34.68	.037	42.92	.046
1880	522.87	.564	1,740.43	1.879	122.76	.133	34.35	.037	46.71	.050
1881	472.08	.510	1,978.12	2.136	111.44	.120	35.32	.038	39.77	.043
1882	463.53	.500	2,874.95	3.104	112.50	.121	34.80	.038	43.23	.047
1883	424.21	.458	2,138.66	2.309	102.46	.111	34.24	.037	41.28	.045
1884	367.46	.397	1,612.28	1.741	103.52	.112	35.08	.038	42.65	.046
1885	327.18	.353	1,295.94	1.399	102.25	.110	34.40	.037	36.80	.040
1886	296.62	.320	1,063.20	1.148	96.61	.104	33.94	.037	38.58	.042
1887	345.03	.372	960.42	1.037	92.45	.100	33.94	.037	37.19	.040
1888	410.59	.443	833.45	.900	97.19	.105	34.25	.037	39.12	.042
1889	429.88	.464	754.44	.814	102.57	.111	34.91	.038	42.40	.046
1890	462.05	.499	912.92	.986	99.72	.108	35.40	.038	40.96	.044
1891	379.17	.409	1,025.97	1.108	94.38	.102	31.86	.034	38.98	.042

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	11. Sheet iron.		12. Lead.		13. White lead.		14. Borax.		15. Bristles.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	20.33	$0.022	36.01	$0.039	45.33	$0.019	125.19	$0.135	277.99	$0.[illegible]
1851	20.00	.022	51.10	.055	46.38	.050	158.56	.171	429.18	.4[illegible]
1852	19.92	.022	36.09	.039	44.78	.048	170.45	.184	529.90	.5[illegible]
1853	27.72	.030	46.37	.050	50.43	.054	191.75	.207	302.21	.[illegible]
1854	31.20	.034	48.14	.052	47.77	.052	194.77	.210	443.91	.479
1855	26.30	.028	51.98	.056	52.01	.056	187.44	.202	540.40	.583
1856	26.54	.029	49.12	.053	57.22	.062	170.63	.184	597.16	.645
1857	26.65	.029	49.08	.053	57.27	.062	144.41	.156	546.62	.[illegible]
1858	23.08	.025	45.64	.049	55.64	.060	131.23	.142	474.27	.512
1859	22.35	.024	46.50	.050	54.96	.059	127.51	.138	431.94	.466
1860	24.15	.026	44.93	.049	52.87	.057	118.99	.128	667.81	.721
1861	25.79	.028	45.74	.049	55.23	.060	112.83	.122	470.00	.507
1862	21.31	.023	48.89	.053	54.59	.059	104.32	.113	316.10	.343
1863	25.34	.027	43.69	.047	53.17	.057	87.04	.094	494.03	.533
1864	25.99	.028	43.03	.046	52.21	.056	92.90	.100	373.24	.4[illegible]
1865	24.39	.026	43.86	.047	51.77	.056	117.86	.127	572.93	.618
1866	24.96	.027	43.35	.047	52.42	.057	143.00	.154	489.18	.5[illegible]
1867	23.63	.026	40.68	.044	51.85	.056	158.01	.171	442.36	.478
1868	22.63	.024	41.01	.044	51.53	.056	121.73	.131	508.91	.549
1869	21.39	.023	40.59	.044	51.43	.056	140.06	.151	514.59	.556
1870	23.76	.026	40.28	.043	50.35	.054	133.48	.144	424.39	.458
1871	25.53	.028	39.44	.043	51.45	.056	156.89	.169	658.04	.710
1872	45.27	.049	56.77	.061	53.95	.058	198.70	.215	682 50	.7[illegible]
1873	46.15	.050	69.31	.075	58.65	.063	214.37	.231	385.38	.416
1874	37.31	.040	47.62	.051	59.46	.064	126.63	.137	319.87	.345
1875	29.63	.032	51.48	.056	57.13	.062	106.93	.115	340.68	.[illegible]
1876	28.70	.031	49.30	.053	56.57	.061	87.11	.094	421.44	.4[illegible]
1877	28.48	.031	44.47	.048	54.70	.059	83.22	.090	347.44	.375
1878	27.37	.030	45.96	.050	47.48	.051	73.81	.080	386.24	.417
1879	23.61	.025	53.66	.058	44.05	.048	70.87	.077	368.74	.3[illegible]
1880	24.99	.027	64.59	.070	43.72	.047	101.66	.110	560.09	.6[illegible]
1881	30.12	.033	32.53	.035	40.74	.044	118.34	.128	451.01	.4[illegible]
1882	32.92	.036	32.56	.035	39.40	.043	108.55	.117	432.75	.467
1883	29.68	.032	31.49	.034	37.18	.040	103.24	.111	413.72	.447
1884	28.20	.030	30.67	.033	33.54	.036	83.15	.090	413.60	.447
1885	25.16	.027	45.94	.050	32.02	.035	76.83	.083	415.25	.448
1886	21.20	.023	27.94	.030	32.99	.036	56.98	.062	421.42	.455
1887	22.08	.024	39.65	.043	33.38	.036	53.58	.058	457.62	.494
1888	23.19	.025	36.58	.039	36.50	.039	59.63	.064	408.50	.441
1889	23.07	.025	47.44	.051	38.31	.041	26.81	.029	459.29	.496
1890	26.42	.029	59.27	.064	39.94	.043	28.76	.031	398.67	.430
1891	28.95	.031	46.45	.050	38.96	.042	28.14	.030	475.40	.513

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	16. Bristle and manila hemp.		17. Camphor, raw.		18. Cinnamon.		19. Cassia, lignea et vera.		20. Peruvian bark.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	.....	.....	141.91	$0.153	465.27	$0.502	194.00	$0.209	295.57	$0.319
1851	.....	.....	153.99	.166	429.85	.464	199.49	.215	424.60	.458
1852	.....	.....	153.09	.165	404.94	.437	201.74	.218	294.98	.318
1853	.....	.....	200.36	.216	334.29	.361	228.00	.246	350.10	.378
1854	.....	.....	198.36	.214	289.13	.312	217.01	.234	139.64	.151
1855	.....	.....	181.08	.195	262.57	.283	196.47	.212	384.52	.415
1856	109.34	$0.118	169.02	.182	279.77	.302	186.01	.201	212.70	.230
1857	89.77	.087	185.61	.200	292.23	.315	229.51	.248	395.37	.427
1858	64.74	.070	128.01	.138	275.06	.297	193.28	.209	271.30	.293
1859	54.02	.058	182.02	.197	227.46	.246	161.95	.175	530.39	.573
1860	61.97	.067	297.99	.322	221.00	.239	176.50	.191	367.50	.397
1861	90.02	.097	442.79	.478	210.60	.227	172.52	.186	620.83	.670
1862	110.05	.119	432.31	.467	227.80	.246	167.39	.181	596.19	.644
1863	128.72	.139	258.60	.279	270.17	.292	174.17	.188	472.35	.510
1864	98.40	.106	205.08	.221	315.69	.341	168.52	.182	199.24	.215
1865	74.78	.081	195.95	.212	350.84	.379	170.99	.185	319.96	.345
1866	116.09	.125	247.65	.267	366.30	.395	191.63	.207	221.66	.239
1867	128.37	.139	288.62	.312	393.40	.425	203.28	.219	176.32	.190
1868	100.95	.109	277.41	.299	447.52	.483	227.86	.246	231.89	.250
1869	96.59	.104	215.46	.233	394.43	.426	262.28	.283	195.62	.211
1870	92.94	.100	156.21	.169	372.49	.402	235.27	.254	203.60	.220
1871	88.09	.095	151.28	.163	414.16	.447	212.65	.230	190.76	.206
1872	88.86	.096	170.82	.184	343.48	.371	179.43	.194	220.40	.238
1873	84.65	.091	175.85	.190	396.39	.428	155.41	.168	194.54	.210
1874	74.69	.081	166.60	.180	314.70	.340	132.83	.143	255.83	.276
1875	73.93	.080	151.81	.164	418.44	.452	111.85	.121	294.83	.318
1876	66.67	.072	141.02	.152	336.52	.363	102.40	.111	208.69	.225
1877	60.98	.066	189.79	.205	369.96	.399	99.25	.107	524.65	.566
1878	67.21	.073	170.82	.184	353.48	.382	86.01	.093	580.19	.626
1879	55.90	.060	170.32	.184	264.79	.286	82.72	.089	322.90	.349
1880	73.91	.080	187.12	.202	172.80	.187	75.57	.082	259.46	.280
1881	74.79	.081	180.01	.194	161.87	.175	85.34	.092	206.64	.223
1882	70.69	.076	155.00	.167	192.67	.208	74.40	.080	238.65	.258
1883	62.56	.068	137.82	.149	208.23	.225	66.93	.072	213.91	.231
1884	54.37	.059	122.42	.132	164.63	.178	61.09	.066	111.50	.120
1885	46.72	.050	129.61	.140	134.41	.145	53.89	.058	153.74	.166
1886	47.78	.053	151.30	.163	110.35	.119	49.35	.053	123.26	.133
1887	54.97	.059	136.45	.147	148.27	.160	43.83	.047	160.92	.174
1888	58.17	.063	159.96	.173	108.09	.117	37.80	.041	184.83	.200
1889	63.46	.069	193.33	.209	108.79	.117	44.19	.048	169.56	.183
1890	58.15	.063	256.91	.277	115.55	.125	39.44	.043	169.63	.183
1891	50.00	.054	251.13	.271	113.53	.123	39.18	.042	176.20	.190

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	21. Lemons.		22. Cochineal.		23. Cognac.		24. Divi-divi.		25. Wire, iron.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	30.49	$0.033	953.27	$1.029	78.22	$0.084	33.99	$0.037	31.05	$0.034
1851	32.72	.035	809.42	.874	74.63	.081	23.12	.025	33.56	.036
1852	29.71	.032	781.53	.844	70.25	.076	20.03	.022	32.17	.035
1853	39.81	.043	981.72	1.060	120.31	.130	27.97	.030	34.56	.037
1854	43.58	.047	888.44	.959	182.12	.197	29.25	.032	39.79	.043
1855	38.58	.042	871.28	.941	210.35	.227	28.09	.030	35.62	.038
1856	29.82	.032	857.70	.926	184.64	.199	21.11	.023	37.84	.040
1857	41.35	.045	568.86	.614	217.50	.235	25.80	.028	38.32	.041
1858	34.61	.037	814.51	.879	170.62	.184	19.94	.022	38.90	.042
1859	37.23	.040	785.09	.848	119.67	.129	26.51	.029	38.89	.042
1860	40.23	.043	619.25	.669	192.59	.208	26.45	.029	37.33	.040
1861	35.15	.038	616.89	.666	165.31	.178	25.99	.028	34.77	.038
1862	32.28	.035	542.57	.586	161.92	.175	27.78	.030	31.90	.034
1863	34.89	.038	609.10	.658	136.06	.147	25.31	.027	32.20	.035
1864	39.33	.042	736.18	.795	117.57	.127	26.49	.029	38.03	.041
1865	37.73	.041	760.18	.821	107.67	.116	21.54	.023	38.14	.041
1866	40.11	.043	799.55	.863	88.17	.095	20.85	.023	41.81	.045
1867	39.75	.043	776.83	.839	119.19	.129	20.66	.022	33.10	.036
1868	38.75	.042	880.80	.951	127.79	.138	19.48	.021	81.03	.087
1869	44.34	.048	714.18	.771	120.17	.130	22.44	.024	71.53	.077
1870	35.94	.039	630.57	.681	110.84	.120	25.60	.028	60.41	.065
1871	33.40	.036	624.22	.674	110.44	.119	27.16	.029	42.24	.046
1872	33.34	.036	551.70	.596	114.56	.124	23.44	.025	62.17	.067
1873	46.43	.050	568.02	.613	162.60	.176	22.14	.024	67.60	.073
1874	47.21	.051	524.65	.566	158.88	.172	24.04	.026	46.17	.050
1875	41.53	.045	466.49	.504	131.41	.142	28.30	.031	66.95	.072
1876	36.32	.039	507.74	.548	137.07	.148	30.64	.033	63.30	.068
1877	30.94	.033	569.12	.614	169.81	.183	29.66	.032	64.03	.069
1878	31.67	.034	522.75	.564	160.68	.173	24.67	.027	48.53	.052
1879	27.24	.029	575.00	.621	152.99	.165	24.61	.027	69.87	.075
1880	31.14	.034	598.50	.646	186.62	.201	27.52	.030	59.27	.064
1881	29.22	.032	438.49	.473	181.67	.196	26.93	.029	57.27	.062
1882	27.83	.030	353.45	.382	197.44	.213	26.58	.029	59.70	.064
1883	28.42	.031	260.09	.281	208.20	.225	24.34	.026	43.37	.047
1884	24.30	.026	249.12	.269	215.98	.233	20.86	.023	50.22	.054
1885	23.74	.026	318.22	.344	220.61	.238	18.40	.020	36.83	.040
1886	27.96	.030	303.45	.328	231.80	.250	18.04	.019	35.73	.039
1887	24.88	.027	265.50	.287	243.54	.263	20.92	.023	21.75	.023
1888	24.69	.027	238.88	.258	254.49	.275	20.04	.022	21.83	.024
1889	21.41	.023	232.36	.251	221.92	.240	20.57	.022	25.59	.028
1890	22.83	.025	230.20	.249	226.10	.244	21.09	.023	25.25	.027
1891	26.83	.029	228.18	.246	248.12	.268	23.92	.026	26.57	.029

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	26. Iron, pig and cast.		27. Iron, bar, hoop, and plate.		28. Iron, bar, hoop, and plate, English.		29. Iron, bar, hoop, and plate, Swedish.		30. Rails.	
	Per 100 kilos.	Per 2,240 pounds.	Per 100 kilos.	Per 2,240 pounds.	Per 100 kilos.	Per 2,240 pounds.	Per 100 kilos.	Per 2,240 pounds.	Per 100 kilos.	Per 2,240 pounds.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	6.35	$15.355	16.01	$38.713	15.93	$38.520	23.20	$56.099	10.70	$25.873
1851	5.60	13.541	14.84	35.884	14.54	35.159	22.96	55.519	15.45	37.359
1852	5.44	13.154	16.06	38.834	15.87	38.375	19.96	48.265	12.98	31.387
1853	8.27	19.998	24.78	59.920	22.19	53.657	24.75	59.847	16.46	39.802
1854	10.44	25.245	25.03	60.525	25.38	61.371	24.86	60.113	21.86	52.859
1855	9.43	22.802	22.08	53.391	21.23	51.336	33.29	80.498	18.71	45.242
1856	9.40	22.730	23.31	56.365	22.41	54.189	30.23	73.099	19.66	47.539
1857	8.72	21.086	22.90	55.374	22.15	53.560	29.95	72.421	19.29	46.645
1858	6.78	16.395	19.78	47.830	18.47	44.662	32.54	78.684	15.78	38.157
1859	6.28	15.186	19.51	47.177	18.23	44.082	29.06	70.269	18.20	44.009
1860	6.46	15.621	18.81	45.484	17.79	43.018	25.70	62.145	16.28	39.366
1861	6.13	14.823	17.80	43.042	17.38	42.026	23.98	57.986	16.22	39.221
1862	6.27	15.161	17.94	43.380	17.08	41.301	24.02	58.082	15.49	37.456
1863	7.27	17.579	18.98	45.895	18.21	44.033	24.90	60.210	12.96	31.338
1864	7.55	18.257	21.50	51.989	21.25	51.384	25.43	61.492	14.95	36.150
1865	7.40	17.894	21.18	51.215	19.90	48.120	26.89	65.022	16.17	39.100
1866	7.12	17.217	20.88	50.490	20.17	48.773	24.16	58.421	16.54	39.995
1867	5.16	12.477	20.06	48.507	18.29	44.227	24.86	60.113	13.76	33.273
1868	6.70	16.201	18.34	44.348	16.99	41.083	22.80	53.928	15.24	36.852
1869	6.62	16.008	18.50	44.734	17.22	41.639	21.43	51.819	15.97	38.617
1870	6.97	16.854	18.99	45.919	17.97	43.453	22.41	54.189	19.75	47.757
1871	7.27	17.579	21.30	51.505	20.23	48.918	26.19	63.330	18.01	43.550
1872	12.54	30.323	27.74	67.078	27.77	67.150	27.94	67.561	21.22	51.312
1873	14.55	35.183	34.43	83.254	33.48	80.957	39.98	96.675	22.78	55.084
1874	10.33	24.979	24.62	59.533	27.21	65.796	34.40	83.182	16.25	39.294
1875	8.20	19.828	22.95	55.495	22.85	55.253	31.37	75.855	13.25	32.040
1876	8.10	19.586	19.43	46.983	20.95	50.659	30.07	72.712	11.24	27.179
1877	7.09	17.144	17.82	43.090	18.11	43.791	26.43	63.910	15.98	38.641
1878	6.39	15.452	16.14	39.028	16.12	38.979	21.27	51.437	12.99	31.411
1879	5.62	13.590	15.39	37.214	14.95	36.150	19.23	46.500	14.18	34.288
1880	6.31	15.258	17.10	41.349	16.25	39.294	21.90	52.956	16.94	40.962
1881	5.81	14.049	16.67	40.309	14.83	35.860	20.01	48.386	19.42	46.959
1882	6.01	14.605	18.56	44.880	15.46	37.384	23.38	56.535	13.98	33.805
1883	5.86	14.170	16.58	40.092	14.52	35.111	20.31	49.111	16.46	39.802
1884	5.70	13.753	17.03	41.180	13.45	32.523	20.67	49.982	10.98	26.551
1885	4.97	12.018	15.68	37.915	11.97	28.944	19.54	47.249	13.23	31.991
1886	4.63	11.196	16.75	40.503	12.87	31.121	18.21	44.033	16.68	40.334
1887	4.57	11.051	14.96	36.174	11.39	27.542	17.80	43.042	14.35	34.699
1888	4.85	11.728	15.18	36.706	13.02	31.483	16.58	40.092	10.78	26.067
1889	6.18	14.944	15.86	38.351	14.51	35.086	17.50	42.316	26.53	64.152
1890	6.40	15.476	16.95	40.986	16.98	41.059	17.67	42.727	14.15	34.216
1891	5.57	13.468	17.48	42.268	15.51	37.504	18.15	43.888	8.96	21.666

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	31. Ivory and elephant teeth.		32. Pease.		33. Extract of logwood.		34. Extract of redwood.		35. Extract of fustic.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 10 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	1,042.35	$1.125	11.77	$0.813	105.52	$0.114	124.29	$0.134	.....	.....
1851	.....	.....	16.69	1.153	94.43	.102	.....	.....	147.50	.1
1852	967.68	1.045	15.81	1.092	93.22	.101	.....	.....	175.56	.1
1853	1,135.29	1 226	35.25	2.435	96.09	.104	410.00	.443	120.00	.1
1854	1,204.80	1.301	38.90	2.688	156.61	.169	362.37	.391	146.75	.1
1855	1,346.19	1.453	23.47	1.622	114.52	.124	420.00	.453	133.89	.1
1856	1,404.86	1.517	26.53	1.833	98.20	.106	328.37	.354	171.02	.1
1857	1,662.07	1.795	26.69	1.844	79.71	.086	336.83	.364	117.30	.0
1858	1,498.42	1.618	16.71	1.155	67.51	.073	247.42	.267	135.91	.0
1859	1,386.57	1.497	17.34	1.198	68.73	.074	237.79	.256	146.67	.0
1860	1,378.45	1.488	24.70	1.707	70.51	.076	208.33	.225	137.72	.0
1861	1,096.93	1.152	43.47	3.003	77.95	.084	238.97	.258	134.09	.0
1862	1,066.69	1.126	28.26	1.953	77.70	.084	206.86	.223	119 04	.0
1863	1,229.44	1.327	33.02	2.281	66.27	.072	202.67	.219	130.55	.0
1864	1,409.45	1.586	21.36	1.476	62.18	.067	215.92	.233	166.61	.0
1865	1,270.12	1.371	32.27	2.230	68.77	.074	233.06	.252	194.05	.0
1866	1,411.61	1.524	31.51	2.177	74.63	.081	241.88	.261	170.87	.0
1867	1,343.56	1.450	19.76	1.365	75.56	.082	246.89	.267	170.45	.0
1868	1,334.59	1.441	30.23	2.089	72.03	.078	247.33	.267	180.51	.0
1869	1,338.40	1.445	31.72	2.192	82.61	.089	250.96	.271	162.96	.0
1870	1,361.10	1.469	21.12	1.459	69.70	.075	226.36	.244	143.73	.1
1871	1,262.72	1.363	19.82	1.369	77.39	.084	226.17	.244	155.16	.1
1872	1,513.21	1.634	27.65	1.910	80.75	.087	194.50	.210	144.59	.1
1873	1,875.45	2.025	33.16	2.291	69.88	.075	194.88	.210	116.58	.1
1874	2,578.28	2.783	20.41	1.410	77.14	.083	193.89	.209	147.74	.1
1875	2,018.26	2.200	48.46	3.348	93.16	.101	199.82	.216	137.16	.1
1876	1,915.65	2.068	21.29	1.471	91.98	.099	212.57	.229	138.82	.1
1877	1,809.09	1.954	19.06	1.317	88.47	.096	177.17	.191	125.91	.1
1878	1,863.92	2.012	20.58	1.422	85.33	.092	167.25	.181	92.22	.1
1879	2,157.61	2.329	19.60	1.354	85.36	.092	186.22	.201	108.24	.1
1880	1,496.60	1.615	18.74	1.295	84.57	.091	192.87	.208	128.58	.1
1881	1,613.69	1.742	20.06	1.386	84.00	.091	187.18	.202	126.61	.1
1882	1,784.58	1.927	22.66	1.566	81.20	.088	149.91	.162	117.10	.1
1883	1,917.94	2.071	16.75	1.157	80.46	.087	131.88	.142	112.39	.1
1884	1,918.04	2.071	14.70	1.016	78.65	.085	129.30	.140	99.14	.1
1885	1,777.77	1.919	16.40	1.133	74.24	.080	155.12	.167	89.82	.0
1886	1,687.07	1.821	13.19	.911	74.80	.081	144.85	.156	95.18	.1
1887	1,651.60	1.783	13.69	.946	73.78	.080	133.73	.144	93.84	.1
1888	1,689.72	1.824	13.45	.929	87.29	.094	142.80	.154	101.32	.1
1889	1,641.24	1.772	14.18	.980	91.63	.099	137.74	.149	105.42	.1
1890	1,850.63	1.998	14.15	.978	88.24	.095	124.88	.135	102.91	.1
1891	1,887.37	2.038	16.78	1.159	86.54	.093	119.70	.129	99.75	.1

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	36. Extract of yellow oak.		37. Figs.		38. Skins, fawn and reindeer.		39. Skins, calf.		40. Skins, sheep and goat.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	135.36	$0.146	40.67	$0.044	326.52	$0.352	164.61	$0.178	179.03	$0.193
1851	131.53	.142	37.79	.041	222.44	.240	187.30	.202	189.57	.205
1852	114.08	.123	39.01	.042	163.54	.177	115.53	.125	132.88	.143
1853	121.16	.131	37.10	.040	170.79	.184	135.98	.147	129.22	.140
1854	112.00	.121	45.87	.050	290.22	.313	218.25	.236	186.42	.201
1855	109.80	.119	51.42	.056	448.80	.485	127.11	.137	171.31	.185
1856	115.01	.124	55.97	.060	368.58	.398	263.62	.285	186.47	.201
1857	114.29	.123	51.45	.056	366.45	.396	267.77	.289	190.80	.206
1858	85.96	.093	41.10	.044	223.73	.242	184.11	.199	168.21	.182
1859	91.64	.099	54.78	.059	269.53	.291	234.37	.253	190.03	.205
1860	83.45	.090	47.08	.051	355.78	.384	269.67	.291	210.97	.228
1861	79.44	.086	45.75	.049	208.12	.225	240.99	.270	170.47	.184
1862	75.82	.082	39.48	.043	217.80	.235	250.51	.270	162.94	.176
1863	66.32	.072	43.98	.047	277.21	.299	278.43	.301	179.01	.193
1864	68.07	.073	43.59	.047	316.30	.341	289.50	.313	152.47	.165
1865	78.80	.085	45.09	.049	291.91	.315	249.10	.269	160.49	.173
1866	79.96	.086	44.61	.048	253.13	.273	266.04	.287	155.60	.168
1867	85.37	.092	41.37	.045	265.12	.286	247.84	.268	228.98	.247
1868	101.29	.109	46.09	.050	303.10	.327	156.17	.169	108.33	.117
1869	79.61	.086	45.40	.049	232.32	.251	259.05	.280	191.20	.206
1870	61.55	.066	46.26	.050	223.34	.241	267.45	.289	175.28	.189
1871	69.38	.075	51.88	.056	278.51	.301	283.43	.306	160.79	.174
1872	73.39	.079	41.83	.045	280.94	.303	291.93	.315	239.36	.258
1873	67.89	.073	41.85	.045	298.61	.322	298.19	.322	189.19	.204
1874	70.81	.076	51.57	.056	304.63	.329	283.41	.306	162.45	.175
1875	76.21	.082	54.58	.059	297.11	.321	209.94	.227	145.37	.157
1876	74.74	.081	40.99	.044	213.02	.230	160.32	.173	169.71	.183
1877	75.55	.082	40.06	.043	238.35	.257	133.78	.144	166.11	.179
1878	83.26	.090	46.44	.050	222.60	.240	134.35	.145	154.48	.167
1879	81.14	.088	44.07	.048	242.03	.261	153.68	.166	152.23	.164
1880	73.65	.080	51.95	.056	304.01	.328	199.09	.215	158.19	.171
1881	68.73	.074	53.97	.058	323.49	.349	175.42	.189	159.03	.172
1882	66.21	.071	52.58	.057	319.84	.345	177.72	.192	162.94	.176
1883	64.81	.070	47.39	.051	290.52	.314	180.36	.195	182.59	.197
1884	65.77	.071	42.18	.046	250.64	.271	170.56	.184	191.13	.206
1885	60.96	.066	42.49	.046	201.10	.217	160.08	.173	136.12	.147
1886	59.07	.064	40.85	.044	193.65	.209	135.85	.147	133.25	.144
1887	56.38	.061	29.22	.032	247.13	.267	124.69	.135	126.01	.136
1888	57.83	.062	37.82	.041	273.91	.296	125.77	.136	148.24	.160
1889	54.82	.059	37.98	.041	300.58	.324	117.46	.127	177.71	.192
1890	51.61	.056	36.03	.039	287.89	.311	128.36	.139	187.00	.202
1891	48.39	.052	40.59	.044	255.56	.276	135.50	.146	182.11	.197

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	41. Fish, dried.		42. Meat, salted and smoked.		43. Meat extract.		44. Gall nut.		45. Yarn cotton.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	83.40	$0.036	73.46	$0.079	.....	.....	187.49	$0.202	178.36	$0 18
1851	27.98	.030	74.33	.080	.....	.....	155.28	.168	170.74	.14
1852	23.25	.025	65.97	.071	.....	.....	193.72	.209	170.69	.184
1853	31.18	.034	90.15	.097	.....	.....	173.52	.187	169.63	.183
1854	33.72	.036	89.55	.097	.....	.....	130.56	.141	164.57	.178
1855	35.94	.039	96.87	.105	.....	.....	152.98	.165	175.82	.190
1856	36.88	.040	93.49	.101	.....	.....	147.81	.160	178.25	.192
1857	43.57	.047	84.42	.091	.....	.....	182.20	.197	205.75	.222
1858	38.84	.042	84.34	.091	.....	.....	165.44	.179	200.50	.216
1859	44.72	.048	102.67	.111	.....	.....	168.91	.182	223.48	.241
1860	40.27	.043	90.97	.098	.....	.....	182.78	.197	234.06	.253
1861	39.77	.043	101.08	.109	.....	.....	136.11	.147	271.86	.293
1862	52.01	.056	75.69	.081	.....	.....	145.13	.157	375.09	.405
1863	49.06	.053	64.03	.069	.....	.....	185.36	.200	543.72	.587
1864	45.63	.049	86.52	.093	.....	.....	183.33	.198	612.87	.662
1865	53.89	.058	87.02	.094	.....	.....	173.66	.187	505.62	.546
1866	56.56	.061	122.95	.133	.....	.....	184.29	.199	458.30	.495
1867	44.17	.048	102.37	.111	2,332.00	$2.518	179.61	.194	391.09	.422
1868	46.06	.050	87.65	.095	2,021.28	2.182	178.22	.192	311.75	.337
1869	46.50	.050	88.40	.095	1,571.10	1.696	137.46	.148	375.30	.405
1870	48.56	.052	79.90	.086	1,556.79	1.681	137.86	.149	341.09	.368
1871	52.83	.057	76.19	.082	1,501.11	1.621	124.05	.134	338.90	.366
1872	47.12	.051	75.95	.082	1,500.11	1.669	153.89	.166	347.10	.375
1873	51.58	.056	76.04	.082	1,469.98	1.587	118.11	.128	398.43	.430
1874	52.32	.056	97.42	.105	1,432.71	1.547	116.63	.126	399.52	.431
1875	43.81	.047	95.12	.103	1,025.30	1.107	115.43	.125	421.84	.455
1876	56.05	.061	99.91	.108	1,346.19	1.453	125.88	.135	284.98	.308
1877	51.90	.056	85.13	.092	1,120.75	1.210	136.87	.147	256.43	.277
1878	51.38	.055	68.52	.074	1,326.15	1.432	128.70	.139	278.57	.301
1879	45.23	.049	65.70	.071	1,477.29	1.595	133.45	.144	269.65	.291
1880	40.15	.043	77.38	.084	1,509.97	1.630	145.18	.157	258.81	.279
1881	48.81	.052	84.75	.091	1,531.05	1.653	128.19	.138	251.34	.271
1882	57.38	.062	87.40	.094	1,147.86	1.239	126.78	.137	270.77	.292
1883	62.90	.068	95.66	.103	1,090.55	1.177	113.87	.123	264.49	.286
1884	56.85	.061	79.10	.085	1,222.24	1.319	131.50	.142	286.85	.310
1885	52.54	.057	65.74	.071	1,090.61	1.177	114.77	.124	302.43	.326
1886	46.81	.051	66.35	.072	1,159.71	1.252	134.75	.145	353.00	.381
1887	45.03	.049	64.12	.069	1,416.65	1.529	134.71	.145	350.94	.379
1888	48.55	.052	64.69	.070	1,445.07	1.560	119.29	.129	357.44	.386
1889	47.72	.052	60.80	.066	1,545.64	1.669	120.92	.131	336.07	.362
1890	44.00	.048	57.47	.062	1,532.88	1.655	122.52	.132	273.72	.295
1891	49.88	.054	61.50	.066	1,462.58	1.579	115.88	.125	262.43	.284

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	46. Yarn, cocoa.		47. Yarn, jute.		48. Yarn and thread, linen.		49. Yarn, wool and half wool.		50. Intestines.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	.....	.....	.....	.....	300.63	$0.325	413.94	$0.447	.....	.....
1851	.....	.....	.....	.....	287.06	.310	417.73	.451	.....	.....
1852	.....	.....	.....	.....	265.09	.286	414.27	.447	.....	.....
1853	42.19	$0.046	.....	.....	324.20	.350	567.05	.612	.....	.....
1854	.....	.....	.....	.....	350.27	.378	533.04	.576	.....	.....
1855	.....	.....	.....	.....	331.64	.358	467.34	.505	.....	.....
1856	.....	.....	.....	.....	338.25	.365	529.02	.571	.....	.....
1857	41.29	.045	.....	.....	338.91	.366	547.85	.591	.....	.....
1858	32.58	.035	.....	.....	295.73	.319	445.89	.481	154.37	$0.167
1859	37.82	.041	.....	.....	297.35	.321	513.08	.554	78.70	.085
1860	54.10	.058	.....	.....	293.16	.316	583.60	.630	147.83	.160
1861	55.00	.059	.....	.....	292.54	.316	562.97	.608	177.84	.191
1862	58.79	.063	.....	.....	283.20	.306	597.91	.645	202.63	.219
1863	47.56	.051	.....	.....	318.41	.344	672.63	.726	181.67	.196
1864	57.35	.062	.....	.....	437.49	.472	786.63	.849	139.96	.151
1865	56.10	.061	.....	.....	333.67	.360	750.85	.811	148.95	.161
1866	57.45	.062	.....	.....	374.73	.405	749.94	.810	156.84	.169
1867	52.11	.056	.....	.....	346.31	.374	656.26	.708	175.96	.190
1868	56.62	.061	.....	.....	325.77	.352	610.69	.659	91.56	.099
1869	48.51	.052	.....	.....	281.38	.304	552.29	.596	63.31	.068
1870	49.29	.053	.....	.....	272.99	.295	482.71	.521	79.19	.085
1871	42.70	.046	.....	.....	283.02	.306	650.88	.703	82.14	.089
1872	56.32	.061	.....	.....	362.29	.391	696.20	.752	90.22	.097
1873	55.91	.060	.....	.....	323.49	.349	681.38	.736	88.79	.096
1874	53.25	.057	.....	.....	292.91	.316	733.39	.792	80.98	.087
1875	46.55	.050	.....	.....	285.73	.308	640.50	.692	79.00	.085
1876	57.60	.062	.....	.....	236.11	.255	635.23	.686	82.85	.089
1877	46.39	.050	.....	.....	204.52	.221	558.97	.603	69.43	.075
1878	42.51	.046	.....	.....	216.68	.234	517.38	.559	80.40	.087
1879	35.49	.038	.....	.....	185.87	.201	478.21	.516	65.80	.071
1880	40.03	.043	.....	.....	361.43	.390	512.69	.553	67.06	.072
1881	37.70	.041	69.05	$0.075	348.72	.376	458.10	.495	68.92	.074
1882	43.04	.046	69.79	.075	364.09	.393	448.13	.484	57.14	.062
1883	47.38	.051	60.65	.065	362.47	.391	467.97	.505	63.12	.068
1884	45.37	.049	59.81	.065	358.65	.387	448.51	.484	60.12	.065
1885	41.27	.045	58.68	.063	384.14	.415	434.47	.469	58.80	.063
1886	29.43	.032	53.04	.057	366.59	.396	399.90	.432	58.84	.064
1887	30.31	.033	54.96	.059	378.40	.409	401.07	.433	58.95	.064
1888	30.68	.033	68.23	.074	383.92	.414	401.66	.434	54.94	.059
1889	35.72	.039	60.90	.066	363.30	.392	399.54	.431	64.70	.070
1890	36.05	.039	58.38	.063	361.71	.390	402.76	.435	60.51	.065
1891	34.93	.038	50.41	.054	373.83	.404	394.31	.426	60.93	.066

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	51. Yellow metal.		52. Gin.		53. Barley.		54. Window glass.		55. Guano, containing ammonia.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per 220 pounds.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	102.10	$0.175	41.55	$0.045	8.69	$0.450	19.51	$0.021	19.83	$4
1851	154.70	.167	48.67	.053	12.45	.645	19.60	.021	20.83	4
1852	173.74	.188	43.77	.047	13.07	.677	22.23	.024	18.55	4
1853	206.10	.222	52.12	.056	15.07	.781	24.03	.026	19.98	4
1854	219.35	.237	57.84	.062	15.43	.800	25.92	.028	22.66	5
1855	220.21	.238	56.18	.061	19.49	1.010	25.44	.027	22.53	5
1856	208.77	.225	63.13	.068	20.17	1.045	25.93	.028	23.08	5
1857	211.46	.228	67.61	.073	16 99	.880	28.47	.031	26.15	6
1858	184.52	.199	56.97	.062	11.56	.599	29.33	.032	24.42	5
1859	182.22	.197	57.56	.062	14.17	.734	27.70	.030	21.29	5
1860	173.01	.187	53.75	.058	16.36	.848	25.40	.027	24.33	5
1861	176.92	.191	48.83	.053	15.98	.828	24.48	.026	22.57	5
1862	163.41	.176	46.47	.050	15.88	.823	24.04	.026	25.67	6
1863	157.89	.170	43.60	.047	10.69	.554	22.30	.024	24.08	5
1864	167.24	.181	32.83	.035	13.39	.694	21.60	.023	23.43	5
1865	159.79	.173	23.83	.026	15.00	.777	27.58	.030	24.41	5
1866	161.35	.174	39.15	.042	19.58	1.015	31.92	.034	23.48	5
1867	152.13	.164	38.87	.042	19.21	.995	38.84	.042	21.79	5
1868	133.74	.144	44.95	.049	12.41	.643	34.67	.037	21.04	5
1869	127.52	.138	42.76	.046	18.51	.959	31.30	.034	24.12	5
1870	115.91	.125	38.44	.041	13.72	.711	36.37	.039	21.50	5
1871	134.41	.145	35.35	.038	15.77	.817	31.41	.034	23.43	5
1872	163.03	.176	37.45	.040	15.41	.799	38.28	.041	24.60	5
1873	169.46	.183	52.17	.056	17.15	.889	33.87	.037	14.41	3
1874	150.19	.162	44.11	.048	17.15	.889	42.27	.046	14.08	3
1875	149.37	.161	33.34	.036	14.75	.764	37.78	.041	12.80	3
1876	144.90	.156	34.73	.037	14.72	.763	36.37	.039	15.29	3
1877	130.59	.141	42.06	.045	13.92	.721	31.72	.034	12.65	3
1878	115.23	.124	35.26	.038	13.64	.707	30.16	.033	14.57	3
1879	103.16	.111	36.79	.040	13.90	.720	24.32	.026	11.32	2
1880	104.74	.113	31.14	.034	14.31	.742	21.56	.023	12.12	2
1881	107.95	.117	39.59	.043	15.26	.791	20.41	.022	11.84	2
1882	115.74	.125	38.59	.042	16.06	.832	22.23	.024	16.08	3
1883	111.21	.120	36.21	.039	13.40	.694	22.66	.024	14.08	3
1884	99.68	.108	38.80	.042	12.36	.640	23.65	.026	11.98	2
1885	84.39	.091	32.37	.035	10.50	.544	20.65	.022	11.07	2
1886	71.32	.077	24.72	.027	9.57	.496	18.61	.020	9.88	2
1887	75.27	.081	25.89	.028	8.77	.454	17.23	.019	9.89	2
1888	110.44	.119	27.18	.029	9.48	.491	17.21	.019	7.95	1
1889	81.48	.088	33.86	.037	10.22	.530	19.29	.021	10.13	2
1890	91.56	.099	39.99	.043	11.07	.574	20.89	.023	10.42	2
1891	84.45	.091	34.24	.037	12.80	.663	26.41	.029	9.20	2

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	56. Gum arabic.		57. Gum benzoin.		58. Gum copal.		59. Gum dammar.		60. India rubber	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	141.18	$0.152	281.48	$0.304	161.38	$0.174	58.12	$0.063	314.10	$0.339
1851	101.83	.110	256.62	.277	239.23	.258	.....	.....	394.59	.426
1852	98.28	.106	306.25	.331	309.60	.334	108.43	.117	275.77	.298
1853	111.53	.120	439.57	.475	200.37	.216	159.44	.172	348.44	.365
1854	116.94	.126	315.78	.341	163.55	.177	129.52	.140	352.10	.380
1855	79.80	.086	270.94	.292	175.65	.190	119.54	.129	266.82	.288
1856	74.08	.080	426.20	.460	201.49	.218	125.11	.135	222.64	.240
1857	86.22	.093	356.79	.385	154.79	.167	131.84	.142	224.33	.242
1858	121.23	.131	237.82	.257	213.57	.231	101.07	.109	222.81	.241
1859	76.73	.083	413.57	.446	122.52	.132	100.39	.108	411.72	.444
1860	91.81	.099	317.78	.343	152.99	.165	96.08	.104	459.20	.496
1861	124.45	.134	374.00	.404	121.95	.132	94.10	.102	290.60	.314
1862	80.32	.087	385.00	.416	230.03	.248	101.57	.109	340.17	.367
1863	100.77	.109	449.09	.485	128.16	.138	78.75	.085	319.33	.345
1864	126.00	.130	343.70	.371	100.12	.108	88.44	.095	274.11	.296
1865	142.14	.153	330.67	.357	105.12	.113	91.95	.099	274.75	.297
1866	192.46	.208	456.14	.492	118.27	.128	110.96	.120	395.70	.427
1867	203.41	.220	368.97	.398	116.54	.121	165.09	.178	335.29	.362
1868	221.46	.239	322.35	.348	150.79	.163	143.76	.155	352.05	.381
1869	142.50	.154	399.98	.432	148.19	.160	190.19	.205	269.50	.291
1870	179.67	.194	337.32	.364	148.47	.160	153.93	.166	347.22	.375
1871	160.17	.173	364.51	.394	109.86	.119	128.09	.138	385.02	.416
1872	140.84	.152	335.27	.362	109.10	.118	123.60	.133	440.60	.475
1873	129.20	.131	343.80	.371	177.47	.192	108.53	.117	406.44	.439
1874	128.82	.139	.....	.....	130.67	.141	95.66	.103	332.43	.359
1875	111.30	.120	.....	.....	126.64	.137	123.84	.134	318.29	.344
1876	135.94	.147	.....	.....	136.40	.147	125.42	.135	323.83	.350
1877	150.52	.162	.....	.....	137.44	.148	138.93	.150	296.31	.320
1878	136.81	.148	.....	.....	115.60	.125	140.23	.151	309.90	.335
1879	138.02	.149	.....	.....	133.97	.145	160.81	.174	361.47	.390
1880	136.11	.147	367.91	.397	131.16	.142	180.33	.195	500.00	.540
1881	139.51	.151	393.94	.425	130.71	.141	177.59	.192	425.98	.460
1882	142.85	.154	365.44	.395	162.11	.175	176.66	.191	456.71	.493
1883	125.83	.136	480.92	.519	173.35	.187	168.44	.182	485.64	.524
1884	182.02	.197	420.11	.454	142.67	.154	171.14	.185	363.18	.392
1885	201.70	.218	474.35	.512	114.76	.124	169.75	.183	368.25	.398
1886	256.00	.276	258.87	.279	134.26	.145	176.06	.190	441.70	.477
1887	271.10	.293	401.77	.434	123.64	.133	174.12	.188	452.19	.488
1888	225.91	.244	312.65	.338	151.45	.164	170.72	.184	382.41	.413
1889	208.56	.225	325.97	.352	141.96	.153	165.16	.178	373.43	.403
1890	211.98	.229	344.76	.361	143.00	.154	146.37	.158	445.50	.481
1891	225.69	.244	250.59	.271	184.22	.199	137.33	.148	376.32	.406

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	61. Guttapercha.		62. Shoes, rubber.		63. Hides, salt.		64. Oats.		65. Hemp.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	153.64	$0.166	658.03	$0.710	97.37	$0.105	15.12	$0.522	101.19	$0.109
1851	175.45	.189	658.08	.710	95.14	.103	11.09	.383	103.20	.111
1852	173.42	.187	514.65	.556	74.69	.081	14.93	.515	113.54	.122
1853	250.83	.271	782.24	.844	92.07	.099	13.56	.468	113.16	.122
1854	278.91	.301	811.77	.876	81.97	.088	17.42	.602	118.61	.128
1855	165.26	.178	750.96	.811	97.18	.105	15.71	.543	85.29	.092
1856	175.94	.190	675.13	.729	119.61	.129	16.36	.565	95.77	.103
1857	204.53	.221	584.08	.631	170.37	.184	15.15	.523	97.23	.105
1858	162.69	.176	378.33	.408	99.41	.107	14.67	.507	67.58	.073
1859	304.85	.329	440.72	.476	117.81	.127	14.38	.497	66.88	.072
1860	312.00	.337	454.96	.492	125.28	.135	14.69	.507	83.42	.090
1861	277.88	.300	443.79	.479	112.78	.122	13.95	.482	83.47	.090
1862	297.15	.321	421.84	.455	112.11	.121	13.66	.472	58.04	.063
1863	386.91	.418	414.68	.448	102.47	.111	10.85	.375	74.99	.081
1864	446.41	.482	368.46	.398	107.52	.116	11.93	.412	62.92	.068
1865	328.41	.355	380.63	.411	100.08	.108	15.29	.528	49.80	.054
1866	240.49	.259	405.84	.438	97.43	.105	14.83	.512	96.71	.104
1867	284.21	.307	394.10	.425	103.04	.111	16.47	.569	93.65	.101
1868	258.01	.279	372.01	.402	116.53	.126	20.62	.712	97.51	.105
1869	187.18	.202	354.68	.383	103.86	.112	18.24	.630	82.82	.089
1870	374.42	.404	373.10	.403	113.52	.123	14.13	.488	78.36	.085
1871	296.45	.320	391.02	.422	128.75	.139	14.86	.513	89.45	.097
1872	291.22	.314	444.78	.480	150.44	.162	14.85	.513	106.31	.115
1873	310.92	.336	455.34	.492	156.70	.169	.....	.....	86.26	.093
1874	296.24	.320	442.14	.477	151.19	.163	17.85	.617	82.02	.089
1875	223.69	.241	483.03	.521	138.99	.150	17.22	.595	67.37	.073
1876	344.62	.372	414.58	.448	116.38	.126	17.67	.610	61.52	.066
1877	413.97	.447	433.02	.468	118.20	.128	16.93	.585	69.70	.075
1878	412.61	.445	472.91	.511	108.31	.117	13.93	.481	61.21	.066
1879	334.71	.361	476.03	.514	107.22	.116	13.74	.475	60.30	.065
1880	287.60	.315	612.30	.661	120.86	.130	14.61	.505	62.81	.068
1881	313.17	.338	541.61	.585	124.83	.135	15.54	.537	80.24	.087
1882	290.89	.314	578.55	.625	123.19	.133	14.12	.488	82.71	.089
1883	273.95	.296	558.66	.603	122.99	.133	11.94	.412	76.23	.082
1884	289.42	.312	526.08	.568	122.01	.132	12.83	.443	74.40	.080
1885	258.85	.279	560.44	.605	120.54	.130	12.40	.428	59.36	.064
1886	248.74	.269	505.56	.546	109.24	.118	11.57	.400	60.23	.065
1887	236.91	.256	500.82	.541	107.28	.116	10.05	.347	57.96	.063
1888	234.22	.253	491.85	.531	93.89	.101	9.74	.336	59.48	.064
1889	350.67	.379	449.65	.485	91.14	.098	11.79	.407	67.99	.073
1890	353.02	.381	489.33	.528	86.93	.094	12.71	.439	56.13	.061
1891	312.12	.337	515.23	.556	86.89	.094	13.41	.463	57.46	.062

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	66. Rosin and turpentine.		67. Herrings.		68. Logwood.		69. Fustic.		70. Redwood.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	8.70	$0.009	16.24	$0.018	9.91	$0.011	12.64	$0.014	28.64	$0.031
1851	4.32	.005	15.91	.017	9.28	.010	9.25	.010	25.00	.027
1852	7.59	.008	21.82	.024	9.71	.010	9.45	.010	24.33	.026
1853	10.15	.011	21.43	.023	14.07	.015	16.72	.018	25.45	.027
1854	11.21	.012	20.36	.022	15.64	.017	15.66	.017	25.46	.027
1855	10.06	.011	20.30	.022	13.69	.015	13.97	.015	26.99	.029
1856	9.21	.010	23.29	.025	13.82	.015	13.87	.015	26.57	.029
1857	10.80	.012	26.59	.029	12.08	.013	13.39	.014	34.07	.037
1858	10.23	.011	21.94	.024	10.05	.011	13.97	.015	22.65	.024
1859	10.14	.011	23.72	.026	10.80	.012	12.16	.013	25.02	.027
1860	9.79	.011	20.53	.022	12.00	.013	12.23	.013	21.76	.023
1861	15.71	.017	23.66	.026	13.32	.014	12.32	.013	19.37	.021
1862	41.53	.045	21.90	.024	13.71	.015	10.66	.012	17.04	.018
1863	48.02	.052	21.44	.023	12.04	.013	15.02	.016	15.89	.017
1864	52.86	.057	21.07	.023	11.47	.012	14.28	.015	16.77	.018
1865	26.08	.028	24.07	.026	12.33	.013	13.10	.014	18.91	.020
1866	17.90	.019	26.37	.028	12.80	.014	11.86	.013	20.38	.022
1867	17.66	.019	24.67	.027	10.61	.011	15.04	.016	21.65	.023
1868	12.97	.014	24.82	.027	13.41	.014	14.46	.016	24.79	.027
1869	11.08	.012	20.45	.022	15.38	.017	11.84	.013	21.33	.023
1870	11.28	.012	20.66	.022	13.03	.014	10.19	.011	16.61	.018
1871	17.29	.019	24.05	.026	13.21	.014	12.29	.013	15.25	.016
1872	19.33	.021	23.61	.025	14.46	.016	11.35	.012	13.98	.015
1873	16.60	.018	25.04	.027	14.34	.015	12.46	.013	17.80	.019
1874	13.60	.015	25.52	.028	13.19	.014	14.07	.015	22.04	.024
1875	11.49	.012	25.81	.028	16.41	.018	15.40	.017	20.10	.022
1876	11.47	.012	26.51	.029	15.60	.017	10.74	.012	16.41	.018
1877	11.51	.012	28.62	.031	14.83	.016	10.52	.011	15.69	.017
1878	10.30	.011	26.62	.029	13.77	.015	10.90	.012	15.79	.017
1879	9.36	.010	30.86	.033	14.53	.016	10.37	.011	16.72	.018
1880	10.87	.012	26.10	.028	14.66	.016	11.16	.012	19.65	.021
1881	12.34	.013	27.38	.030	13.74	.015	9.98	.011	17.08	.018
1882	12.19	.013	28.85	.031	14.13	.015	11.10	.012	15.49	.017
1883	10.56	.011	29.49	.032	13.37	.014	10.20	.011	14.92	.016
1884	8.62	.009	25.80	.028	13.46	.015	8.82	.010	13.15	.014
1885	8.05	.009	23.69	.026	12.60	.014	8.15	.009	11.11	.012
1886	7.96	.009	21.32	.023	12.50	.013	8.94	.010	11.86	.013
1887	7.53	.008	18.63	.020	12.63	.014	9.38	.010	12.06	.013
1888	7.42	.008	20.23	.022	14.83	.016	7.80	.008	12.58	.014
1889	9.03	.010	19.67	.021	16.29	.018	8.80	.010	11.48	.012
1890	9.62	.010	19.97	.022	15.79	.017	8.97	.010	11.31	.012
1891	10.09	.011	23.35	.025	13.91	.015	8.81	.010	13.97	.015

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	71. Cedar wood.		72. Ebony wood.		73. Jacaronda wood.		74. Cork wood.		75. Mahogany wood.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	20.94	$0.023	24.20	$0.026	25.29	$0.027	44.80	$0.048	23.47	$0.025
1851	19.14	.021	18.55	.020	26.86	.029	56.87	.061	24.66	.027
1852	18.34	.020	17.19	.019	22.65	.024	57.56	.062	24.21	.026
1853	20.52	.022	18.57	.020	31.04	.034	47.15	.051	22.90	.025
1854	28.30	.031	17.19	.019	33.48	.036	52.91	.057	23.42	.025
1855	24.32	.026	20.23	.022	26.55	.029	53.61	.058	19.55	.021
1856	24.59	.027	18.13	.020	27.96	.030	57.87	.062	24.15	.026
1857	21.65	.023	22.27	.024	35.59	.038	51.23	.055	29.04	.031
1858	19.17	.021	22.05	.024	26.52	.029	57.15	.062	20.57	.022
1859	19.11	.021	27.04	.029	41.30	.045	55.30	.060	23.78	.026
1860	27.74	.030	25.76	.028	44.45	.048	54.88	.059	27.25	.029
1861	27.94	.030	27.71	.030	48.65	.053	61.85	.067	23.56	.025
1862	20.83	.022	20.05	.022	32.22	.030	61.87	.067	19.34	.021
1863	24.39	.026	24.07	.026	25.33	.027	60.39	.065	27.88	.030
1864	27.40	.030	16.74	.018	26.08	.028	64.51	.070	38.99	.042
1865	24.35	.026	13.91	.015	27.31	.029	58.52	.063	25.03	.027
1866	22.43	.024	18.73	.020	19.27	.021	67.18	.073	26.03	.028
1867	17.73	.019	21.06	.023	25.98	.028	71.67	.077	19.55	.021
1868	19.03	.021	18.26	.020	32.78	.035	62.18	.067	15.84	.017
1869	23.03	.025	19.98	.022	35.81	.039	52.62	.057	14.87	.016
1870	24.31	.026	22.46	.024	42.81	.046	52.48	.057	22.19	.024
1871	24.44	.026	18.82	.020	41.33	.045	60.69	.066	20.08	.022
1872	20.20	.022	28.07	.030	52.94	.057	61.39	.066	27.02	.029
1873	27.56	.030	30.59	.033	42.17	.046	65.19	.070	23.31	.025
1874	21.66	.023	21.45	.023	43.53	.047	62.84	.079	22.38	.024
1875	17.50	.019	23.11	.025	44.09	.048	68.72	.074	20.25	.022
1876	19.39	.021	28.02	.030	18.05	.019	71.63	.077	22.62	.024
1877	22.42	.024	21.63	.023	37.76	.041	69.65	.075	21.53	.023
1878	24.12	.026	20.74	.022	40.23	.043	73.09	.079	18.89	.020
1879	20.29	.022	23.95	.026	39.98	.043	67.86	.073	18.63	.020
1880	20.61	.022	21.41	.023	43.04	.046	67.43	.073	20.67	.022
1881	17.71	.019	17.64	.019	40.33	.044	69.98	.076	19.86	.021
1882	20.36	.022	16.19	.017	40.44	.044	67.31	.073	21.33	.023
1883	21.84	.024	22.40	.024	31.52	.034	63.48	.069	22.15	.024
1884	17.60	.019	22.74	.025	22.51	.024	63.08	.068	17.16	.019
1885	12.39	.013	28.62	.031	23.58	.025	65.84	.071	15.79	.017
1886	13.52	.015	26.95	.029	15.82	.017	64.00	.069	16.72	.018
1887	15.66	.017	21.26	.023	32.79	.035	64.88	.070	17.38	.019
1888	15.21	.016	15.94	.017	30.22	.033	66.10	.071	18.94	.020
1889	18.61	.020	18.10	.020	43.38	.047	68.17	.074	21.80	.024
1890	14.54	.016	18.16	.020	32.75	.035	67.03	.072	24.41	.026
1891	14.17	.015	17.50	.019	29.08	.031	67.82	.073	19.13	.021

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	76. Walnut wood.		77. Honey.		78. Horns, buffalo.		79. Horns, ox and cow.		80. Indigo.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	.....	.....	47.09	$0.051	49.46	$0.053	48.47	$0.052	976.02	$1.054
1851	.....	.....	43.08	.047	50.38	.054	65.63	.071	952.28	1.028
1852	.....	.....	39.41	.043	55.26	.060	45.57	.049	1,021.07	1.102
1853	.....	.....	42.96	.046	56.63	.061	59.28	.064	1,089.65	1.176
1854	.....	.....	43.10	.047	51.67	.056	52.76	.057	1,062.73	1.147
1855	.....	.....	52.92	.057	42.81	.046	53.26	.057	1,103.77	1.192
1856	16.71	$0.018	60.04	.065	47.06	.051	49.92	.054	1,097.57	1.185
1857	13.74	.015	75.52	.082	59.14	.064	66.98	.072	1,308.08	1.412
1858	15.12	.016	52.10	.056	69.71	.075	53.26	.057	1,375.09	1.484
1859	15.64	.017	53.05	.057	72.01	.078	58.12	.063	1,321.67	1.427
1860	11.53	.012	56.90	.064	82.22	.089	55.02	.059	1,409.83	1.522
1861	11.37	.012	71.46	.077	70.50	.076	44.00	.048	1,488.72	1.607
1862	16.03	.017	58.13	.063	65.16	.070	38.31	.041	1,630.94	1.761
1863	14.01	.015	54.40	.059	64.39	.070	40.33	.044	1,286.79	1.389
1864	15.49	.017	58.21	.063	59.44	.064	40.96	.044	1,354.46	1.462
1865	11.99	.013	59.41	.064	68.47	.074	31.52	.034	1,296.94	1.400
1866	12.03	.013	57.33	.062	68.80	.074	29.49	.032	1,452.63	1.568
1867	13.98	.015	56.29	.061	83.03	.090	41.52	.045	1,484.02	1.602
1868	15.47	.017	52.38	.057	70.67	.076	40.33	.044	1,569.17	1.694
1869	13.80	.015	62.76	.068	67.07	.072	43.17	.047	1,763.46	1.904
1870	14.78	.016	70.85	.076	73.21	.079	45.87	.050	1,690.82	1.825
1871	18.36	.020	83.14	.090	69.79	.071	57.52	.062	1,637.48	1.768
1872	22.97	.025	75.22	.081	85.97	.093	65.28	.070	1,606.21	1.734
1873	19.33	.021	65.08	.070	66.03	.071	83.30	.090	1,440.43	1.555
1874	18.00	.019	71.25	.077	75.25	.081	82.69	.089	1,455.08	1.571
1875	19.25	.021	77.50	.084	84.12	.091	90.77	.098	1,416.66	1.529
1876	26.09	.028	76.56	.083	82.99	.090	79.29	.086	1,278.10	1.380
1877	17.49	.019	76.07	.082	97.70	.105	79.06	.085	1,295.89	1.399
1878	19.03	.021	68.55	.074	81.97	.088	68.08	.073	1,216.77	1.314
1879	17.03	.018	57.06	.062	78.73	.085	57.19	.062	1,246.34	1.345
1880	17.64	.019	64.24	.069	122.68	.132	68.85	.074	1,307.32	1.411
1881	17.82	.019	58.78	.063	116.65	.126	70.53	.076	1,411.07	1.523
1882	18.96	.020	59.54	.064	106.26	.115	75.02	.081	1,388.63	1.499
1883	18.39	.020	59.54	.064	86.34	.093	62.03	.067	1,315.24	1.420
1884	18.33	.020	56.06	.061	86.77	.094	59.97	.065	1,214.93	1.312
1885	16.77	.018	53.53	.058	85.59	.092	50.37	.054	1,077.03	1.163
1886	16.29	.018	39.42	.043	89.85	.097	45.39	.049	1,110.10	1.198
1887	16.73	.018	37.90	.041	77.84	.084	50.03	.054	1,081.41	1.167
1888	17.80	.019	43.35	.047	66.46	.072	52.14	.056	1,058.61	1.143
1889	18.24	.020	56.54	.061	79.43	.086	45.03	.049	1,198.64	1.294
1890	17.36	.019	54.34	.059	55.44	.060	43.13	.047	927.65	1.001
1891	16.68	.018	56.64	.061	61.35	.066	43.29	.047	1,069.18	1.154

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	81. Ginger root.		82. Iodine.		83. Jute.		84. Cheese.		85. Coffee.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	44.03	$0.048	2,673.00	$2.886	.....	.....	75.85	$0.082	90.12	$0.097
1851	39.74	.043	2,224.06	2.401	.....	.....	78.19	.084	80.56	.087
1852	39.25	.042	2,240.22	2.418	.....	.....	79.47	.086	80.33	.087
1853	44.70	.048	4,140.75	4.470	.....	.....	96.72	.104	91.02	.098
1854	42.38	.046	3,126.00	3.375	.....	.....	99.67	.108	93.07	.100
1855	42.33	.046	3,015.00	3.255	.....	.....	112.76	.122	90.89	.098
1856	50.39	.054	3,049.29	3.292	.....	.....	105.58	.114	94.15	.102
1857	46.78	.051	2,919.23	3.151	.....	.....	106.07	.115	105.03	.113
1858	39.58	.043	2,391.18	2.581	.....	.....	102.57	.111	92.13	.099
1859	37.10	.040	2,395.59	2.586	.....	.....	100.53	.109	106.24	.115
1860	48.87	.053	2,114.52	2.283	.....	.....	110.04	.119	122.60	.132
1861	96.27	.104	1,567.50	1.692	.....	.....	97.56	.105	119.13	.129
1862	120.36	.130	1,347.74	1.455	.....	.....	96.69	.104	138.75	.150
1863	133.98	.145	1,222.36	1.320	.....	.....	110.49	.119	141.72	.153
1864	100.62	.109	1,785.44	1.927	.....	.....	105.07	.113	140.90	.152
1865	65.59	.071	2,095.21	2.262	.....	.....	108.40	.117	132.49	.143
1866	86.86	.094	2,667.82	2.880	.....	.....	116.83	.126	125.48	.135
1867	68.89	.074	2,878.58	3.108	.....	.....	123.96	.134	111.53	.120
1868	76.72	.083	2,807.76	3.031	.....	.....	114.85	.124	96.78	.104
1869	62.90	.068	2,916.90	3.149	.....	.....	119.80	.129	100.48	.108
1870	65.90	.071	2,901.80	3.133	.....	.....	112.10	.121	103.16	.111
1871	77.32	.083	5,195.16	5.608	.....	.....	119.01	.128	111.86	.121
1872	81.00	.087	7,723.52	8.338	50.65	$0.055	137.69	.149	146.27	.158
1873	107.64	.116	4,014.18	4.334	49.29	.053	136.75	.148	179.37	.194
1874	138.02	.149	2,800.86	3.024	37.90	.041	129.56	.140	185.54	.200
1875	105.32	.114	2,240.07	2.418	39.13	.042	130.32	.141	181.13	.196
1876	87.87	.095	1,949.53	2.105	34.87	.038	123.79	.134	165.93	.179
1877	91.57	.099	2,843.74	3.070	36.23	.039	135.43	.146	172.22	.186
1878	74.48	.080	3,511.76	3.791	39.42	.043	121.52	.131	150.15	.162
1879	74.66	.081	3,484.15	3.761	33.19	.036	117.87	.127	135.54	.146
1880	64.97	.070	2,505.40	2.705	52.12	.056	129.22	.140	142.35	.154
1881	76.17	.082	1,821.46	1.966	37.95	.041	134.87	.146	123.05	.133
1882	75.09	.081	1,483.93	1.602	37.94	.041	124.05	.134	100.14	.108
1883	93.36	.101	1,212.90	1.309	34.09	.037	126.57	.137	99.63	.108
1884	89.24	.096	1,055.57	1.140	32.94	.036	120.68	.130	99.13	.107
1885	74.79	.081	1,852.78	2.000	34.56	.037	105.58	.114	90.18	.097
1886	59.55	.064	2,526.20	2.727	27.21	.029	104.73	.113	99.77	.108
1887	59.77	.065	2,933.99	3.167	27.19	.029	106.95	.115	154.87	.167
1888	53.65	.058	2,905.48	3.137	28.94	.031	111.82	.121	134.80	.146
1889	50.25	.054	2,543.27	2.746	30.93	.033	105.95	.114	159.37	.172
1890	54.89	.059	2,671.41	2.884	31.96	.035	113.54	.123	172.57	.186
1891	71.52	.077	2,661.31	2.873	29.26	.032	119.07	.129	163.50	.177

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	86. Coffee, Brazil.		87. Coffee, Domingo.		88. Coffee, Java.		89. Coffee, La Guayra.		90. Coffee, Porto Rico.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	89.68	$0.097	83.99	$0.091	88.10	$0.095	96.96	$0.105	98.13	$0.106
1851	75.26	.081	77.11	.083	89.53	.097	91.96	.099	96.51	.104
1852	74.79	.081	75.43	.081	89.52	.097	92.40	.100	99.45	.107
1853	86.58	.093	88.33	.095	101.01	.109	102.08	.110	105.55	.114
1854	88.14	.095	88.96	.096	109.87	.119	99.01	.107	103.97	.112
1855	84.50	.091	89.95	.097	113.83	.123	103.64	.112	113.46	.122
1856	87.91	.095	96.50	.104	114.15	.123	106.93	.115	113.59	.123
1857	97.65	.105	109.04	.118	111.13	.120	123.88	.134	137.37	.148
1858	81.93	.088	95.60	.103	93.40	.101	109.34	.118	112.81	.122
1859	103.36	.112	101.76	.110	103.43	.112	120.81	.130	124.98	.135
1860	117.89	.127	121.99	.132	131.00	.141	128.57	.139	140.57	.152
1861	111.15	.120	121.48	.131	132.31	.143	134.03	.145	137.83	.149
1862	126.30	.136	140.68	.152	151.70	.164	144.50	.156	156.98	.169
1863	135.26	.146	135.35	.146	143.22	.155	143.99	.155	168.56	.182
1864	133.41	.144	129.92	.140	153.09	.165	140.93	.152	108.00	.117
1865	116.70	.126	127.64	.138	160.48	.173	144.11	.156	149.73	.162
1866	108.69	.117	118.42	.128	160.43	.173	130.13	.140	147.42	.159
1867	95.15	.103	122.11	.132	141.22	.152	117.77	.127	132.10	.143
1868	85.90	.093	92.08	.090	120.03	.130	106.12	.115	126.30	.136
1869	89.68	.097	96.73	.104	135.05	.146	116.76	.126	135.36	.146
1870	96.05	.104	91.75	.099	108.63	.117	110.56	.119	118.23	.128
1871	111.04	.120	107.87	.116	102.07	.110	112.56	.122	122.43	.132
1872	142.05	.153	146.51	.158	152.20	.164	149.34	.161	217.50	.235
1873	170.47	.184	200.00	.216	199.71	.216	178.92	.193	188.59	.204
1874	172.93	.187	160.06	.173	208.94	.226	188.04	.203	186.71	.202
1875	173.13	.187	171.21	.185	207.98	.225	183.58	.198	194.34	.210
1876	151.77	.167	143.19	.155	202.32	.218	165.52	.179	184.65	.199
1877	163.21	.176	149.88	.162	197.65	.213	178.60	.193	196.31	.212
1878	132.19	.143	152.00	.164	195.47	.211	108.07	.117	192.41	.208
1879	119.79	.129	100.25	.108	179.52	.194	140.75	.152	173.62	.187
1880	134.32	.145	135.96	.147	170.08	.184	136.64	.148	182.32	.197
1881	111.53	.120	93.84	.101	155.17	.168	120.39	.130	145.64	.157
1882	85.73	.093	75.47	.081	147.38	.159	106.12	.115	159.64	.172
1883	87.86	.095	90.28	.097	123.36	.133	111.11	.120	157.62	.170
1884	91.43	.099	84.90	.092	128.04	.138	105.02	.113	156.64	.169
1885	80.10	.086	79.79	.086	118.17	.128	99.07	.107	124.52	.134
1886	92.32	.100	58.87	.064	117.76	.127	103.94	.112	137.54	.148
1887	148.90	.161	172.28	.186	154.80	.167	173.60	.187	183.49	.198
1888	128.07	.138	113.26	.122	150.53	.163	140.30	.151	159.24	.172
1889	153.50	.166	149.71	.162	173.66	.187	167.55	.181	168.91	.182
1890	163.61	.177	170.07	.184	183.23	.198	184.61	.199	189.62	.205
1891	153.06	.165	162.50	.175	189.40	.204	176.66	.191	190.78	.206

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	91. Cacao.		92. Chromate of potash.		93. Bones.		94. Bone ash.		95. Bone coal and meal.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per 2,240 pounds.	Per 100 kilos.	Per 2,240 pounds.	Per 100 kilos.	Per 2,240 pounds.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	64.70	$0.070	.....	.....	9.50	$22.972	2.41	$5.828	16.70	$40.382
1851	56.50	.061	124.66	$0.134	10.08	24.374	2.47	5.973	19.54	47.249
1852	66.15	.071	119.27	.129	9.56	23.117	3.73	9.019	17.92	43.332
1853	67.48	.073	153.80	.166	9.85	23.818	3.60	8.850	18.72	45.286
1854	67.58	.073	161.28	.174	9.67	23.383	3.56	8.608	19.84	47.9 [illegible]
1855	90.89	.098	149.47	.161	11.29	27.300	4.50	10.881	22.71	54.915
1856	102.68	.111	162.37	.175	9.32	22.537	5.62	13.590	22.93	55.447
1857	165.40	.179	157.83	.170	11.32	27.373	6.82	16.491	28.78	69.592
1858	105.72	.114	161.06	.174	9.88	23.891	.....	.....	18.63	45.049
1859	106.20	.115	189.10	.204	8.52	20.602	6.46	15.621	22.35	54.044
1860	129.75	.140	184.68	.199	8.25	19.949	7.19	17.386	15.49	37.456
1861	114.49	.124	157.97	.171	9.07	21.932	6.52	15.766	21.51	52.01[illegible]
1862	120.97	.131	138.43	.149	13.35	32.281	5.88	14.218	22.42	54.21[illegible]
1863	113.82	.123	140.80	.152	9.25	22.367	.....	.....	25.66	62.04[illegible]
1864	128.95	.139	125.15	.135	9.97	24.108	7.12	17.217	26.65	64.442
1865	117.19	.127	110.74	.120	9.00	21.763	3.56	8.608	25.41	61.443
1866	131.93	.142	104.51	.113	9.62	23.262	4.87	11.776	26.06	63.015
1867	117.59	.127	90.10	.097	8.66	20.941	9.13	22.077	22.40	54.163
1868	95.96	.104	89.95	.097	8.96	21.666	7.68	18.571	23.45	56.704
1869	94.16	.102	95.93	.104	12.21	29.525	12.02	29.065	13.84	33.466
1870	95.79	.103	97.86	.106	12.35	29.863	11.89	28.751	23.90	58.010
1871	96.08	.104	133.74	.144	12.70	30.710	12.34	29.839	23.92	57.840
1872	111.93	.121	158.42	.171	13.08	31.628	12.77	30.879	21.37	51.674
1873	96.71	.104	158.42	.171	12.00	29.017	10.21	24.689	19.82	47.928
1874	99.49	.107	127.35	.137	14.20	34.337	11.45	27.687	17.12	41.39[illegible]
1875	102.15	.110	109.47	.118	15.93	38.520	12.08	29.210	14.98	36.225
1876	131.59	.142	88.55	.096	13.78	33.321	12.71	30.734	13.51	32.668
1877	137.96	.149	84.59	.091	12.77	30.879	13.58	32.838	17.17	41.518
1878	160.05	.173	78.62	.085	12.14	29.355	12.92	31.242	19.07	46.113
1879	198.31	.214	100.57	.109	10.12	24.471	11.00	26.599	17.49	42.292
1880	130.88	.141	113.25	.122	11.25	27.203	10.29	24.882	15.67	37.891
1881	138.06	.149	112.51	.121	11.38	27.518	11.71	28.316	18.60	44.976
1882	141.20	.152	121.46	.131	12.86	31.097	13.47	32.572	15.54	37.577
1883	159.23	.172	103.06	.111	13.77	33.297	13.29	32.136	18.28	44.203
1884	148.45	.160	69.18	.075	12.41	30.008	11.24	27.179	14.56	35.207
1885	159.99	.173	59.97	.065	9.96	24.084	9.86	23.842	13.50	32.644
1886	137.42	.148	63.99	.069	8.15	19.707	8.40	20.312	11.48	27.760
1887	142.72	.154	67.55	.073	8.56	20.690	8.70	21.182	11.14	26.937
1888	136.72	.148	77.28	.083	8.80	21.279	8.63	20.868	11.82	28.582
1889	127.44	.138	83.69	.090	8.97	21.690	9.37	22.657	10.97	26.526
1890	132.19	.143	78.16	.084	10.59	25.607	10.31	24.930	11.49	27.784
1891	143.81	.155	75.38	.081	9.26	22.391	9.32	22.538	11.24	27.179

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	96. Currants.		97. Corks.		98. Madder.		99. Copper.		100. Licorice.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	45.61	$0.049	188.02	$0.203	92.44	$0.100	159.41	$0.172	139.49	$0.151
1851	32.13	.035	241.50	.261	104.77	.113	169.91	.183	124.82	.135
1852	43.94	.047	263.57	.285	89.82	.097	175.43	.189	118.01	.127
1853	90.05	.097	247.89	.268	99.43	.107	200.08	.216	120.05	.130
1854	26.20	.028	256.39	.277	108.41	.117	224.00	.242	129.78	.140
1855	77.79	.084	283.86	.306	109.03	.118	223.21	.241	149.85	.162
1856	111.08	.120	205.29	.222	150.34	.162	228.28	.246	148.94	.161
1857	88.87	.096	325.79	.352	103.82	.112	224.45	.242	147.94	.160
1858	48.62	.052	227.37	.245	114.24	.123	205.72	.222	163.33	.176
1859	47.67	.051	273.87	.296	85.80	.093	187.80	.203	167.27	.181
1860	41.62	.045	218.67	.236	98.68	.107	203.11	.219	164.54	.178
1861	40.06	.043	291.80	.315	105.78	.114	190.65	.206	187.00	.202
1862	38.11	.041	217.60	.235	78.70	.085	188.41	.203	178.63	.193
1863	38.39	.041	213.39	.230	80.92	.087	177.91	.192	141.52	.153
1864	38.33	.041	149.29	.161	77.43	.084	195.81	.211	154.02	.166
1865	35.32	.038	163.08	.176	78.24	.084	174.31	.188	148.46	.160
1866	37.87	.041	175.43	.189	79.99	.086	187.01	.202	153.22	.165
1867	35.18	.038	283.01	.306	75.99	.082	169.40	.183	142.93	.154
1868	30.46	.033	318.06	.343	90.98	.098	154.94	.167	131.39	.142
1869	32.56	.035	264.38	.285	122.96	.133	156.80	.169	140.29	.151
1870	45.33	.049	250.49	.270	111.03	.120	150.84	.163	157.05	.170
1871	46.11	.050	237.05	.256	121.34	.131	156.00	.168	157.64	.170
1872	45.59	.049	263.50	.284	107.83	.116	190.77	.206	152.94	.165
1873	40.62	.044	226.60	.245	93.28	.101	191.45	.207	157.48	.170
1874	44.52	.048	226.85	.245	86.10	.093	178.06	.192	159.11	.172
1875	44.93	.049	230.34	.249	75.76	.082	183.12	.198	174.24	.188
1876	49.79	.054	222.37	.240	71.27	.077	181.43	.196	187.85	.203
1877	49.38	.053	227.11	.245	71.20	.077	167.65	.181	175.37	.189
1878	34.60	.037	197.03	.213	66.68	.072	151.53	.164	158.62	.171
1879	40.95	.044	188.26	.203	54.84	.059	136.15	.147	184.63	.199
1880	45.12	.049	196.29	.212	67.45	.073	129.78	.140	169.22	.183
1881	42.70	.046	178.90	.193	68.17	.074	134.77	.145	211.23	.228
1882	45.92	.050	199.43	.215	73.81	.080	140.94	.152	174.51	.188
1883	44.10	.048	184.17	.199	78.34	.085	134.81	.146	184.64	.199
1884	35.31	.038	191.19	.206	84.50	.091	123.81	.134	180.81	.195
1885	37.47	.040	174.81	.189	78.49	.085	108.24	.117	178.61	.193
1886	43.01	.046	174.87	.189	75.71	.082	96.67	.104	178.16	.192
1887	44.22	.048	178.61	.193	72.98	.079	96.96	.105	179.04	.193
1888	34.56	.037	177.20	.191	66.47	.072	142.77	.154	179.56	.194
1889	32.16	.035	184.50	.199	57.37	.062	109.32	.118	164.84	.178
1890	36.92	.040	167.59	.181	79.62	.086	110.48	.119	150.72	.163
1891	39.94	.043	173.53	.187	76.74	.083	115.39	.125	157.38	.170

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	101. Leather.		102. Leather cloth.		103. Candles, stearine and paraffine.		104. Mace.		105. Nutmegs.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	210.29	$0.227	.....	.....	209.15	$0.226	555.68	$0.600	578.54	$0.625
1851	252.97	.273	.....	.....	198.52	.214	491.10	.530	461.85	.499
1852	300.08	.324	.....	.....	179.24	.194	543.01	.586	462.62	.499
1853	320.25	.346	.....	.....	215.02	.232	644.29	.696	510.47	.551
1854	386.25	.417	.....	.....	224.06	.242	553.33	.597	509.94	.551
1855	388.59	.420	.....	.....	246.30	.266	508.27	.549	358.22	.387
1856	370.62	.400	.....	.....	214.15	.231	470.24	.508	445.06	.480
1857	455.21	.491	384.41	$0.415	225.92	.244	420.68	.454	393.02	.424
1858	363.33	.392	286.65	.309	206.08	.222	333.32	.360	322.10	.348
1859	363.64	.393	352.13	.380	211.41	.228	299.27	.323	274.43	.296
1860	390.93	.422	320.33	.346	209.12	.226	275.16	.297	313.70	.339
1861	350.83	.379	298.59	.322	205.75	.222	250.84	.271	242.04	.261
1862	378.98	.409	343.02	.370	187.33	.202	236.77	.256	203.12	.219
1863	384.64	.415	384.23	.415	166.15	.179	209.17	.226	171.19	.185
1864	417.72	.451	412.50	.445	146.89	.159	240.11	.259	208.55	.225
1865	310.64	.335	375.03	.405	144.88	.156	262.91	.284	225.83	.244
1866	219.17	.237	374.94	.405	152.77	.165	330.97	.357	271.90	.294
1867	263.25	.284	344.82	.372	156.11	.169	375.62	.406	247.59	.267
1868	237.47	.256	355.86	.384	156.44	.169	410.92	.444	253.87	.274
1869	294.75	.318	301.70	.326	154.26	.167	541.45	.585	295.39	.319
1870	300.50	.324	300.64	.325	150.81	.163	675.54	.729	416.90	.450
1871	249.33	.269	329.50	.356	150.17	.162	775.81	.838	520.78	.562
1872	293.53	.317	280.94	.303	143.89	.155	939.03	1.014	686.12	.741
1873	247.73	.267	259.91	.281	147.65	.159	863.35	.932	534.02	.577
1874	282.37	.305	232.60	.251	147.16	.163	525.71	.568	692.79	.748
1875	254.54	.275	228.02	.246	137.05	.148	626.50	.676	448.82	.485
1876	264.69	.286	259.34	.280	136.48	.147	512.63	.553	473.09	.511
1877	256.82	.277	236.39	.255	137.31	.148	415.00	.448	401.54	.433
1878	230.88	.249	208.01	.225	128.36	.139	363.69	.393	434.93	.470
1879	239.31	.258	212.04	.229	119.99	.130	384.33	.415	317.24	.342
1880	258.66	.279	226.64	.245	109.08	.118	351.96	.380	349.93	.378
1881	262.51	.283	210.09	.227	106.45	.115	393.52	.425	508.82	.549
1882	257.34	.278	213.58	.231	107.91	.116	392.60	.424	444.62	.480
1883	261.29	.282	196.63	.212	120.79	.130	381.13	.411	446.28	.482
1884	240.72	.260	232.17	.251	121.08	.131	331.12	.357	406.86	.439
1885	233.39	.252	231.60	.250	112.31	.121	308.46	.333	379.71	.410
1886	234.76	.253	246.58	.266	97.46	.105	360.06	.389	363.71	.393
1887	210.90	.228	210.38	.227	89.61	.097	472.53	.510	336.92	.364
1888	234.96	.254	217.29	.235	85.76	.093	520.09	.561	361.12	.390
1889	231.55	.250	239.73	.259	88.17	.095	529.24	.571	472.71	.510
1890	207.03	.224	187.09	.203	92.56	.100	539.70	.583	519.59	.561
1891	242.48	.262	211.93	.229	90.27	.097	538.90	.582	535.54	.578

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	106. Maize.		107. Almonds.		108. Nails, iron.		109. Cloves.		110. Nuts (hard)	
	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	19.61	$1.186	132.65	$0.143	51.79	$0.056	139.61	$0.151	.....	.....
1851	14.81	.895	124.24	.134	37.52	.041	127.23	.137	.....	.....
1852	19.53	1.181	123.66	.133	39.52	.043	175.20	.189	.....	.....
1853	11.99	.725	130.58	.141	38.72	.042	137.42	.148	.....	.....
1854	30.58	1.849	128.98	.139	44.28	.048	119.74	.129	.....	.....
1855	27.71	1.675	130.72	.141	40.86	.044	109.38	.118	.....	.....
1856	15.35	.928	135.38	.146	42.34	.046	95.19	.103	.....	.....
1857	12.72	.769	165.71	.179	46.04	.050	86.39	.093	.....	.....
1858	24.12	1.458	128.70	.139	45.69	.049	61.80	.067	.....	.....
1859	23.96	1.449	111.15	.120	44.43	.048	65.21	.070	.....	.....
1860	21.96	1.328	110.61	.119	40.54	.044	74.93	.081	.....	.....
1861	25.51	1.542	119.10	.129	38.90	.042	66.52	.072	.....	.....
1862	23.89	1.444	107.51	.116	36.86	.040	79.64	.086	.....	.....
1863	19.09	1.154	117.48	.127	34.28	.037	72.01	.078	.....	.....
1864	23.23	1.404	121.24	.131	36.16	.039	66.59	.072	.....	.....
1865	27.96	1.690	131.65	.142	35.93	.039	70.38	.076	.....	.....
1866	19.72	1.192	155.67	.168	35.08	.038	64.34	.069	.....	.....
1867	21.53	1.302	156.41	.169	33.16	.036	60.10	.065	.....	.....
1868	22.71	1.373	149.29	.161	32.50	.035	68.71	.074	.....	.....
1869	22.60	1.366	140.52	.152	33.13	.036	63.81	.069	.....	.....
1870	20.66	1.249	146.50	.158	34.60	.037	62.87	.068	.....	.....
1871	17.91	1.083	134.10	.145	32.45	.035	60.94	.066	.....	.....
1872	16.05	.970	117.79	.127	40.30	.044	109.38	.118	35.05	$0.038
1873	14.69	.888	113.39	.122	51.57	.056	158.20	.171	36.26	.039
1874	16.35	.988	123.99	.134	42.97	.046	331.56	.358	32.40	.035
1875	16.00	.967	136.11	.147	39.72	.043	329.15	.355	49.46	.053
1876	13.28	.803	134.91	.146	36.99	.040	279.31	.302	37.07	.040
1877	13.37	.808	151.76	.164	35.29	.038	267.94	.289	45.37	.049
1878	12.33	.745	167.54	.181	29.84	.032	288.73	.312	54.75	.059
1879	11.24	.680	182.05	.197	33.51	.036	310.66	.335	39.70	.043
1880	11.88	.718	163.38	.176	40.14	.043	272.58	.294	31.62	.034
1881	12.81	.774	148.50	.160	40.63	.044	233.97	.253	29.79	.032
1882	14.65	.886	137.58	.149	43.73	.047	183.19	.198	27.08	.029
1883	13.51	.817	160.07	.173	43.07	.046	131.17	.142	35.03	.038
1884	11.96	.723	142.77	.154	36.15	.039	106.54	.115	34.67	.037
1885	10.68	.646	130.75	.141	33.24	.036	104.35	.113	35.97	.039
1886	9.52	.575	130.73	.141	33.38	.036	159.04	.172	36.98	.040
1887	9.62	.582	134.89	.146	34.63	.037	205.79	.222	33.63	.036
1888	11.32	.684	130.30	.141	30.52	.033	164.44	.178	25.90	.028
1889	10.46	.632	147.26	.159	34.31	.037	131.12	.142	19.71	.021
1890	9.10	.550	167.81	.181	35.30	.038	97.51	.105	17.34	.019
1891	12.84	.776	172.81	.187	39.18	.042	62.84	.068	18.03	.019

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	111. Walnuts and hazel-nuts.		112. Oil, castor.		113. Oil, cotton-seed.		114. Oil, cocoa-nut.		115. Oil, lin-seed.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	40.31	$0.044	148.37	$0.160	.....	.....	71.39	$0.077	66.38	$0.072
1851	35.32	.038	91.99	.099	.....	.....	72.55	.078	64.83	.070
1852	57.05	.062	74.30	.080	.....	.....	74.52	.080	59.59	.064
1853	39.45	.043	83.33	.090	.....	.....	90.53	.098	60.43	.065
1854	50.19	.054	102.56	.111	.....	.....	103.73	.112	75.05	.081
1855	39.95	.043	110.22	.119	.....	.....	90.28	.097	78.58	.085
1856	52.14	.056	116.06	.125	.....	.....	85.73	.093	78.33	.085
1857	56.09	.061	112.02½	.121	.....	.....	99.43	.107	81.51	.088
1858	48.15	.052	121.67	.131	.....	.....	79.66	.086	84.10	.089
1859	46.50	.050	115.45	.125	.....	.....	86.50	.093	59.66	.064
1860	33.94	.037	112.50	.121	.....	.....	93.80	.101	59.25	.064
1861	43.34	.047	113.75	.123	.....	.....	99.06	.107	65.03	.070
1862	49.31	.053	124.16	.134	.....	.....	112.86	.122	79.04	.085
1863	42.46	.046	105.83	.114	.....	.....	96.58	.104	86.12	.093
1864	48.92	.053	105.74	.114	.....	.....	85.11	.092	76.24	.082
1865	41.35	.045	126.39	.136	72.95	$0.079	87.09	.094	69.86	.075
1866	44.00	.048	126.65	.137	78.31	.085	103.42	.112	79.60	.086
1867	44.45	.048	120.21	.130	73.07	.079	99.91	.108	76.84	.083
1868	44.70	.048	128.51	.139	68.01	.073	107.15	.116	69.00	.074
1869	43.54	.047	118.86	.128	.....	.....	87.20	.094	59.01	.064
1870	48.51	.052	102.23	.110	71.35	.077	84.48	.091	66.48	.072
1871	52.35	.057	104.38	.113	72.66	.078	87.01	.094	69.97	.076
1872	54.25	.059	119.30	.129	67.67	.073	82.95	.090	72.15	.078
1873	59.87	.065	120.51	.130	61.27	.066	73.44	.079	74.66	.081
1874	49.84	.054	130.84	.141	54.00	.058	76.19	.082	63.15	.068
1875	40.11	.043	110.70	.120	54.85	.059	80.82	.087	53.68	.058
1876	43.55	.047	94.13	.102	60.39	.065	86.09	.093	55.94	.060
1877	47.77	.052	101.19	.109	77.44	.084	84.93	.092	61.40	.066
1878	43.73	.047	109.89	.119	65.25	.070	99.10	.107	59.03	.064
1879	52.10	.056	103.42	.112	57.93	.063	90.09	.097	57.71	.062
1880	46.16	.050	110.01	.119	56.24	.061	77.14	.083	59.85	.065
1881	48.17	.052	98.97	.107	57.10	.062	66.51	.072	57.98	.063
1882	51.39	.056	98.87	.107	60.21	.065	72.92	.079	54.71	.059
1883	47.28	.051	90.33	.098	59.29	.064	75.74	.082	49.86	.054
1884	44.93	.049	74.26	.080	55.71	.060	73.42	.079	45.86	.050
1885	43.61	.047	78.57	.085	41.02	.044	62.19	.067	49.34	.053
1886	41.25	.045	75.35	.081	40.45	.044	61.28	.066	44.47	.048
1887	40.58	.044	68.41	.074	43.21	.047	59.06	.064	42.78	.046
1888	41.27	.045	62.82	.068	53.12	.057	53.92	.058	39.68	.043
1889	45.95	.050	66.64	.072	58.50	.063	54.76	.059	44.00	.048
1890	46.17	.050	75.68	.082	49.36	.053	58.05	.063	48.85	.053
1891	45.99	.050	77.40	.084	48.31	.052	61.27	.066	48.40	.052

EXHIBIT A.—*Import prices of 150 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	116. Oil, olive.		117. Oil, palm.		118. Oil, turpentine.		119. Oil cake.		120. Orchilla and orchilla extract.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	98.75	$0.107	62.06	$0.067	53.32	$0.058	.....	.....	112.31	$0.121
1851	83.99	.091	55.48	.060	57.38	.062	10.31	$0.011	77.10	.083
1852	102.31	.110	57.24	.062	77.07	.083	10.36	.011	62.72	.068
1853	137.75	.149	70.74	.076	98.42	.106	14.60	.016	64.77	.070
1854	118.76	.128	93.60	.101	82.59	.089	16.50	.018	53.48	.058
1855	111.49	.120	83.59	.090	62.55	.068	.....	.....	64.48	.070
1856	100.54	.109	78.65	.085	60.71	.066	14.15	.015	90.36	.098
1857	116.51	.126	87.11	.094	78.64	.085	.....	.....	142.89	.154
1858	94.34	.102	75.72	.082	78.09	.084	.....	.....	64.00	.069
1859	125.38	.135	84.62	.091	76.16	.082	9.39	.010	104.07	.112
1860	122.63	.132	77.79	.084	66.02	.071	.....	.....	103.85	.112
1861	129.61	.140	79.05	.085	97.32	.105	.....	.....	71.91	.078
1862	117.12	.126	73.30	.079	190.18	.205	12.82	.014	74.04	.080
1863	117.08	.126	62.40	.067	164.76	.178	15.00	.016	60.12	.065
1864	121.00	.131	72.38	.078	146.95	.159	.....	.....	60.06	.065
1865	104.94	.113	68.78	.074	103.07	.111	11.11	.012	59.94	.065
1866	132.95	.144	73.62	.079	81.74	.088	.....	.....	64.38	.070
1867	129.32	.140	78.81	.085	65.39	.071	.....	.....	65.09	.070
1868	146.39	.158	81.79	.088	57.84	.062	16.34	.018	64.57	.070
1869	110.54	.119	82.23	.089	57.96	.063	12.89	.014	87.30	.094
1870	112.69	.122	79.20	.086	56.34	.061	15.00	.016	101.79	.110
1871	107.37	.116	106.75	.115	79.36	.086	20.83	.022	69.64	.075
1872	102.31	.110	76.61	.083	84.52	.091	18.00	.019	78.99	.085
1873	89.75	.097	74.38	.080	71.11	.077	15.33	.017	76.17	.082
1874	93.02	.100	69.95	.076	58.61	.063	25.00	.027	95.16	.103
1875	99.08	.107	70.37	.076	49.59	.054	11.35	.012	71.92	.078
1876	100.42	.108	73.44	.079	52.45	.057	15.04	.016	80.87	.087
1877	108.73	.117	77.85	.084	54.38	.059	15.11	.016	74.31	.080
1878	110.80	.120	78.50	.085	49.53	.053	16.09	.017	66.43	.072
1879	104.56	.113	66.04	.071	47.16	.051	13.01	.014	63.75	.069
1880	104.28	.113	63.13	.068	54.96	.059	14.46	.016	69.86	.075
1881	94.15	.102	64.45	.070	74.07	.080	14.58	.016	90.06	.097
1882	94.92	.102	67.26	.073	81.80	.088	14.81	.016	98.95	.107
1883	85.79	.093	71.90	.078	67.00	.072	14.02	.015	96.32	.104
1884	90.85	.098	64.85	.070	51.27	.055	13.16	.014	95.95	.104
1885	92.24	.100	52.29	.056	52.36	.057	12.10	.013	91.56	.099
1886	87.14	.094	41.30	.045	52.94	.057	10.71	.012	81.23	.088
1887	93.31	.101	38.09	.041	51.90	.056	11.15	.012	82.28	.089
1888	97.29	.105	39.93	.043	60.20	.065	12.03	.013	73.50	.079
1889	92.21	.100	44.55	.048	65.55	.071	12.71	.014	61.49	.066
1890	92.05	.099	46.64	.050	60.69	.066	12.35	.013	58.83	.064
1891	102.59	.111	48.12	.052	56.77	.061	12.57	.014	57.50	.062

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	121. Paraffine.		122. Mother-of-pearl shells.		123. Petroleum, refined.		124. Pepper.		125. Phosphorus.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks*		*Marks.*		*Marks.*	
1850	.....	.....	70.97	$0.077	.....	.....	63.10	$0.068	668.12	$0.7[illegible]
1851	.....	.....	81.43	.088	.....	.....	62.08	.067	635.93	.6[illegible]
1852	.....	.....	74.15	.080	.....	.....	70.37	.076	548.21	.5[illegible]
1853	.....	.....	61.54	.066	.....	.....	81.79	.088	509.78	.5[illegible]
1854	.....	.....	53.98	.058	.....	.....	91.29	.099	546.88	.5[illegible]
1855	.....	.....	54.23	.059	.....	.....	88.26	.095	568.44	.614
1856	.....	.....	46.83	.051	.....	.....	96.25	.104	615.00	.664
1857	.....	.....	100.63	.109	.....	.....	91.33	.099	636.82	.6[illegible]
1858	.....	.....	87.05	.094	.....	.....	80.45	.087	607.87	.6[illegible]
1859	180.00	$0.194	60.85	.066	.....	.....	83.50	.090	637.50	.6[illegible]
1860	231.25	.250	59.95	.065	.....	.....	80.21	.087	614.24	.6[illegible]
1861	.....	.....	50.76	.055	.....	.....	75.65	.082	506.88	.5[illegible]
1862	91.07	.098	46.98	.051	54.18	$0.058	75.30	.081	489.65	.5[illegible]
1863	180.24	.195	41.21	.044	54.11	.058	71.68	.077	531.56	.5[illegible]
1864	174.32	.188	35.06	.038	53.27	.057	70.16	.076	420.86	.4[illegible]
1865	140.19	.151	59.52	.064	75.84	.082	65.30	.070	392.04	.4[illegible]
1866	91.47	.099	58.70	.063	54.43	.059	63.32	.068	398.54	.4[illegible]
1867	120.00	.130	68.32	.074	38.63	.042	63.27	.068	375.10	.4[illegible]
1868	82.63	.089	88.89	.096	37.39	.040	53.05	.057	373.65	.4[illegible]
1869	84.62	.091	80.69	.087	42.65	.046	83.49	.090	387.98	.4[illegible]
1870	129.38	.140	79.68	.086	42.50	.046	94.95	.103	417.13	.4[illegible]
1871	84.53	.091	68.65	.074	37.52	.041	109.71	.118	434.61	.4[illegible]
1872	126.00	.136	88.64	.096	38.74	.042	130.89	.141	563.56	.6[illegible]
1873	.....	.....	156.97	.169	30.07	.032	143.94	.155	668.69	.7[illegible]
1874	112.33	.121	233.12	.252	23.03	.025	136.26	.147	735.97	.8[illegible]
1875	.....	.....	201.23	.217	22.11	.024	112.50	.121	659.61	.7[illegible]
1876	111.20	.120	224.78	.243	36.11	.039	86.21	.093	720.20	.7[illegible]
1877	164.06	.177	170.21	.184	25.83	.028	82.95	.090	613.34	.6[illegible]
1878	167.87	.181	228.67	.247	20.77	.022	70.63	.076	695.51	.7[illegible]
1879	106.50	.115	204.60	.221	17.11	.018	72.19	.078	644.83	.6[illegible]
1880	67.40	.073	201.16	.217	17.86	.019	86.91	.094	543.64	.5[illegible]
1881	91.06	.098	137.17	.148	15.65	.017	106.07	.115	477.82	.5[illegible]
1882	84.42	.091	134.10	.145	14.36	.016	110.27	.119	467.08	.5[illegible]
1883	95.09	.103	123.20	.133	15.56	.017	129.54	.140	524.79	.5[illegible]
1884	100.31	.108	99.74	.108	15.29	.017	146.57	.158	553.22	.5[illegible]
1885	99.84	.108	124.49	.134	14.79	.016	152.64	.165	571.27	.6[illegible]
1886	90.60	.098	124.80	.135	13.00	.014	159.31	.172	527.19	.5[illegible]
1887	69.69	.075	126.28	.136	12.40	.013	139.42	.151	517.87	.5[illegible]
1888	58.29	.063	125.73	.136	14.55	.016	152.77	.165	568.85	.614
1889	62.16	.067	121.47	.131	13.32	.014	135.81	.147	578.30	.624
1890	60.98	.066	140.17	.151	12.75	.014	113.32	.122	560.97	.6[illegible]
1891	69.93	.075	130.44	.141	12.49	.013	87.40	.094	549.79	.594

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	126. Piassava.		127. Allspice.		128. Quicksilver.		129. Rice.		130. Rice, Japan.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	11.83	$0.013	114.11	$0.123	768.21	$0.829	30.34	$0.033	.....	.....
1851	14.49	.016	97.50	.105	727.78	.786	27.12	.029	.....	.....
1852	12.02	.014	95.98	.104	612.91	.662	23.16	.025	.....	.....
1853	20.09	.022	106.74	.115	481.67	.520	31.13	.034	.....	.....
1854	20.80	.022	102.66	.111	428.66	.463	28.33	.031	.....	.....
1855	12.52	.014	95.53	.103	399.91	.432	32.38	.035	.....	.....
1856	17.56	.019	87.70	.095	382.45	.413	25.02	.027	.....	.....
1857	29.41	.032	79.39	.086	406.58	.439	24.65	.027	.....	.....
1858	25.00	.027	57.82	.062	420.94	.454	20.31	.022	.....	.....
1859	17.22	.019	58.57	.063	.....	.....	22.08	.024	.....	.....
1860	19.97	.022	62.35	.067	445.00	.480	25.87	.028	.....	.....
1861	26.72	.029	54.08	.058	434.29	.469	25.83	.028	.....	.....
1862	26.19	.028	55.50	.060	443.27	.479	23.06	.025	.....	.....
1863	22.53	.024	49.69	.054	434.42	.469	23.85	.026	.....	.....
1864	26.37	.028	43.82	.047	503.12	.543	22.39	.024	.....	.....
1865	33.62	.036	47.33	.051	446.25	.482	23.98	.026	.....	.....
1866	38.59	.042	48.84	.053	423.06	.457	22.80	.025	.....	.....
1867	32.54	.035	37.82	.041	447.92	.484	24.33	.026	.....	.....
1868	28.14	.030	45.96	.050	417.23	.430	23.76	.026	.....	.....
1869	26.88	.029	41.86	.045	447.33	.483	19.11	.021	.....	.....
1870	37.46	.040	41.85	.045	494.59	.534	22.16	.024	.....	.....
1871	48.28	.052	39.64	.043	600.16	.648	22.40	.024	.....	.....
1872	45.42	.049	62.16	.067	719.82	.777	20.44	.022	.....	.....
1873	41.86	.045	55.54	.060	858.98	.927	20.26	.022	.....	.....
1874	47.54	.051	61.84	.067	1,235.62	1.334	22.84	.025	.....	.....
1875	46.65	.050	59.98	.065	851.78	.920	19.16	.021	.....	.....
1876	42.31	.046	71.17	.077	634.74	.685	19.79	.021	.....	.....
1877	41.22	.044	78.66	.085	478.57	.517	21.17	.023	.....	.....
1878	45.87	.049	88.05	.095	448.67	.484	22.16	.024	.....	.....
1879	45.46	.049	95.96	.104	401.44	.433	20.57	.022	.....	.....
1880	43.13	.047	85.60	.092	433.72	.468	19.65	.021	.....	.....
1881	45.34	.049	91.04	.098	417.70	.451	19.17	.021	.....	.....
1882	51.63	.056	77.98	.084	404.81	.437	17.47	.019	23.70	$0.026
1883	49.65	.054	62.72	.068	354.67	.383	18.86	.020	19.97	.022
1884	48.72	.053	51.68	.056	374.80	.405	18.26	.020	19.77	.021
1885	44.60	.048	48.72	.053	376.05	.406	17.24	.019	20.59	.022
1886	43.43	.047	46.72	.050	367.95	.397	16.30	.018	19.54	.021
1887	62.75	.068	47.80	.052	456.61	.493	16.88	.018	19.33	.021
1888	66.91	.072	49.68	.054	493.95	.533	16.62	.018	17.92	.019
1889	67.84	.073	60.57	.065	536.63	.579	17.46	.019	17.11	.018
1890	82.77	.089	59.95	.065	594.21	.641	17.62	.019	20.94	.023
1891	96.18	.104	53.89	.058	483.75	.522	18.17	.020	22.38	.024

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	131. Rice, Java.		132. Rye.		133. Raisins.		134. Rum.		135. Grass seed.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per bushel.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	23.06	$0.025	12.09	$0.731	46.58	$0.050	51.41	$0.056	45.36	$0.049
1851	21.87	.024	14.15	.855	36.55	.039	50.06	.054	42.04	.045
1852	21.03	.023	13.54	.819	34.48	.037	45.71	.049	40.66	.044
1853	34.34	.037	16.73	1.011	54.05	.058	64.26	.069	42.43	.046
1854	29.08	.031	18.16	1.098	55.61	.060	64.76	.070	34.83	.038
1855	38.94	.042	21.96	1.328	55.86	.060	72.24	.078	41.38	.045
1856	25.32	.027	21.41	1.294	83.46	.090	67.79	.073	48.21	.052
1857	25.86	.028	14.80	.895	95.85	.103	85.50	.092	52.53	.057
1858	22.49	.024	13.48	.815	64.92	.070	58.40	.063	53.27	.058
1859	22.11	.024	13.25	.801	60.91	.066	70.34	.076	51.94	.056
1860	25.37	.027	15.44	.933	59.23	.064	73.96	.080	43.63	.047
1861	28.99	.031	15.77	.953	56.27	.061	70.50	.076	51.96	.056
1862	35.95	.039	16.68	1.008	53.20	.057	57.68	.062	47.34	.051
1863	39.37	.043	14.94	.903	56.54	.061	60.63	.065	43.75	.047
1864	26.94	.029	11.40	.689	51.56	.056	80.34	.087	40.59	.044
1865	34.25	.037	13.53	.818	48.11	.052	67.68	.073	43.11	.047
1866	40.15	.043	14.86	.898	64.38	.070	69.83	.075	36.75	.040
1867	37.34	.040	21.41	1.294	61.93	.067	72.53	.078	41.69	.045
1868	34.09	.037	22.43	1.356	53.38	.058	81.77	.088	34.96	.038
1869	38.40	.041	18.36	1.110	44.94	.049	89.95	.097	35.17	.038
1870	38.15	.041	15.61	.944	58.21	.063	93.29	.101	33.75	.036
1871	38.64	.042	17.08	1.033	53.71	.058	83.25	.090	45.92	.050
1872	43.70	.047	15.04	.909	52.57	.057	90.18	.097	42.71	.046
1873	28.78	.031	17.58	1.063	58.00	.063	105.41	.114	38.48	.042
1874	51.79	.056	18.67	1.129	60.89	.066	111.07	.120	40.85	.044
1875	42.26	.046	15.88	.960	66.77	.072	96.48	.104	38.98	.042
1876	39.52	.043	23.68	1.432	55.24	.060	106.37	.115	50.07	.054
1877	38.06	.041	17.45	1.055	48.04	.052	116.55	.126	43.94	.047
1878	43.62	.047	13.20	.798	37.17	.040	113.02	.122	39.27	.042
1879	39.73	.043	12.88	.779	47.59	.051	109.39	.118	37.24	.040
1880	40.96	.044	18.54	1.121	55.01	.059	106.14	.115	42.46	.046
1881	34.60	.037	19.64	1.187	62.43	.067	113.93	.123	47.12	.051
1882	36.16	.039	16.35	.988	58.70	.063	108.18	.117	50.62	.055
1883	30.22	.033	14.16	.856	48.60	.052	99.72	.108	54.76	.059
1884	35.70	.039	13.76	.832	41.16	.044	94.44	.102	42.97	.046
1885	26.29	.028	12.05	.728	51.27	.055	115.01	.124	49.16	.053
1886	27.62	.030	10.71	.647	47.30	.051	116.12	.125	39.35	.042
1887	27.35	.030	9.62	.582	38.49	.042	121.29	.131	44.17	.048
1888	27.52	.030	10.73	.649	37.37	.040	104.62	.113	48.62	.052
1889	29.11	.031	10.82	.654	38.44	.041	102.74	.111	44.56	.048
1890	27.67	.030	12.72	.769	48.77	.053	117.68	.127	44.83	.048
1891	26.05	.028	17.31	1.046	46.84	.051	97.54	.105	41.48	.045

EXHIBIT A.—*Import prices of 189 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	136. Clover seed.		137. Linseed.		138. Rape and turnip seed.		139. Sesamum.		140. Sago.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	77.96	$0.084	16.72	$0.018	23.51	$0.025	19.15	$0.021	56.79	$0.061
1851	87.27	.094	16.52	.018	23.06	.025	.....	.....	44.70	.048
1852	90.86	.108	21.30	.023	24.18	.026	.....	.....	39.55	.043
1853	116.78	.126	21.94	.024	29.70	.032	30.74	.033	47.40	.051
1854	102.90	.111	27.58	.030	28.69	.031	32.26	.035	45.88	.050
1855	114.02	.123	33.11	.036	41.17	.044	39.09	.042	51.84	.056
1856	122.82	.133	25.43	.027	34.16	.037	34.05	.037	53.06	.057
1857	84.27	.091	27.64	.030	35.67	.039	35.83	.039	49.04	.053
1858	96.58	.104	24.11	.026	33.48	.036	33.12	.036	39.56	.043
1859	81.69	.088	23.81	.026	30.44	.033	27.74	.030	33.28	.036
1860	110.88	.120	26.07	.028	27.45	.030	31.88	.034	40.85	.044
1861	97.33	.105	20.87	.023	29.31	.032	36.65	.040	40.90	.044
1862	87.94	.095	35.00	.038	34.71	.037	38.51	.042	46.44	.050
1863	83.18	.090	28.11	.030	30.00	.032	37.16	.040	42.88	.046
1864	96.30	.104	25.22	.027	32.57	.035	35.81	.039	38.63	.042
1865	129.51	.140	44.31	.048	35.11	.038	34.41	.037	40.93	.044
1866	89.99	.097	24.84	.027	30.30	.033	37.52	.041	37.05	.040
1867	87.83	.095	32.87	.035	30.96	.033	37.97	.041	37.94	.041
1868	99.07	.107	23.71	.026	27.44	.030	36.36	.039	43.23	.047
1869	97.37	.105	25.34	.027	26.07	.028	35.11	.038	43.35	.047
1870	99.41	.107	25.43	.027	36.08	.039	35.77	.039	37.18	.040
1871	114.89	.124	33.22	.036	36.41	.039	35.25	.038	35.75	.039
1872	108.26	.117	24.00	.026	31.69	.034	37.83	.041	35.07	.038
1874	95.05	.103	28.09	.030	28.94	.031	37.91	.041	37.14	.040
1874	96.43	.104	26.81	.029	25.43	.027	36.31	.039	39.90	.043
1875	108.72	.117	26.93	.029	34.20	.037	33.91	.037	38.05	.041
1876	132.02	.143	28.89	.031	30.82	.033	29.32	.032	35.79	.039
1877	124.07	.135	32.14	.035	32.82	.035	37.41	.040	38.99	.042
1878	94.23	.102	26.02	.028	30.24	.033	34.31	.037	41.86	.045
1879	87.54	.095	34.72	.037	23.64	.026	33.24	.036	40.50	.044
1880	99.28	.107	25.66	.028	22.53	.024	32.18	.035	36.78	.040
1881	98.85	.107	26.74	.029	31.24	.034	39.44	.043	37.75	.041
1882	99.54	.107	27.67	.030	28.04	.030	34.01	.037	33.67	.036
1883	126.55	.137	23.68	.026	30.74	.033	28.57	.031	29.32	.032
1884	103.47	.112	22.29	.024	24.60	.027	26.95	.029	26.59	.029
1885	86.04	.093	24.47	.026	22.98	.025	31.26	.034	28.44	.031
1886	89.35	.096	23.86	.026	24.69	.027	24.55	.027	26.79	.029
1887	85.79	.093	21.49	.023	19.77	.021	26.67	.029	26.34	.028
1888	95.05	.103	21.41	.023	23.09	.025	28.18	.030	30.80	.033
1889	93.71	.101	21.60	.023	24.85	.027	29.07	.031	32.74	.035
1890	79.02	.085	22.78	.025	25.37	.027	28.90	.031	27.27	.029
1891	89.12	.096	23.12	.025	25.17	.027	28.70	.031	26.31	.028

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	141. Saltpetre.		142. Anchovies.		143. Sardines.		144. Gum shellac.		145. Slate.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	41.00	$0.044	94.27	$0.102	248.17	$0.268	102.69	$0.111	191.51	$0.207
1851	36.81	.040	45.92	.050	245.88	.265	100.99	.109	185.24	.200
1852	37.10	.040	42.88	.046	247.96	.268	100.96	.109	186.90	.202
1853	39.14	.042	56.50	.061	246.82	.266	104.75	.113	190.22	.205
1854	39.88	.043	57.03	.062	226.75	.245	103.18	.111	205.28	.222
1855	69.37	.075	53.18	.057	239.58	.259	102.37	.111	202.64	.219
1856	36.91	.040	55.22	.060	207.40	.224	102.98	.111	195.00	.211
1857	41.80	.045	60.24	.065	199.35	.215	159.05	.172	193.07	.209
1858	33.35	.036	45.47	.049	196.40	.212	142.83	.154	187.33	.202
1859	32.62	.035	44.11	.048	188.87	.204	183.83	.305	212.17	.229
1860	25.97	.028	36.47	.039	244.61	.264	418.35	.452	210.42	.227
1861	27.94	.030	38.28	.041	231.17	.250	372.29	.402	208.56	.225
1862	34.00	.037	39.79	.043	222.13	.240	377.72	.408	202.79	.219
1863	27.04	.029	38.08	.041	192.96	.208	334.85	.361	206.67	.223
1864	31.08	.034	44.23	.048	201.70	.218	314.02	.339	247.03	.267
1865	25.48	.028	94.66	.102	207.59	.224	210.19	.227	208.86	.225
1866	24.17	.026	56.53	.061	271.10	.293	185.27	.200	174.11	.188
1867	21.98	.024	68.87	.074	218.01	.235	165.51	.179	230.73	.249
1868	23.75	.026	99.78	.108	186.81	.202	176.43	.190	210 18	.227
1869	30.54	.033	46.73	.050	188.88	.204	185.57	.200	212.08	.229
1870	31.08	.034	142.99	.154	175.75	.190	182.83	.197	201.85	.218
1871	31.03	.033	92.42	.100	261.15	.282	279.40	.302	210.00	.227
1872	29.78	.032	110.50	.119	246.99	.267	326.64	.353	215.38	.232
1873	28.98	.031	117.69	.127	223.53	.241	349.50	.377	212.72	.229
1874	23.96	.026	142.77	.154	221.71	.239	461.04	.498	200.89	.217
1875	23.12	.025	143.51	.155	213.66	.231	438.16	.473	200.40	.216
1876	23.11	.025	130.83	.141	191.93	.207	327.98	.354	215.14	.232
1877	27.79	.030	109.24	.118	185.11	.200	248.31	.268	165.48	.179
1878	29.76	.032	88.97	.096	174.19	.188	185.02	.200	184.41	.199
1879	28.13	.030	132.39	.143	170.21	.184	179.41	.194	165.33	.178
1880	30.51	.033	212.48	.229	203.91	.220	272.14	.294	149.25	.161
1881	28.70	.031	328.72	.355	220.79	.238	271.73	.293	130.23	.141
1882	26.05	.028	219.17	.237	233.76	.252	230.01	.248	145.89	.157
1883	22.33	.024	234.43	.253	221.12	.239	201.11	.217	136.49	.147
1884	19.24	.021	202.32	.218	178.58	.193	165.12	.178	131.97	.142
1885	19.75	.021	141.68	.153	187.94	.203	148.26	.160	135.83	.147
1886	19.13	.021	126.21	.136	172.63	.186	123.83	.134	169.55	.183
1887	19.23	.021	126.99	.137	172.90	.187	120.09	.130	137.44	.148
1888	19.01	.021	135.13	.146	168.16	.182	121.62	.131	137.47	.148
1889	18.38	.020	170.32	.184	165.76	.179	133.85	.144	126.38	.136
1890	16.02	.017	112.36	.121	157.41	.170	162.92	.176	126.59	.137
1891	17.18	.019	121.65	.131	151.55	.164	161.55	.174	124.41	.134

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	146. Lard.		147. Sulphur, crude.		148. Sulphur, refined.		149. Sail yarn.		150. Soda crystals.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	21.24	$0.023	56.76	$0.061	174.70	$0.189	6.59	$0.007	71.34	$0.077
1851	18.28	.020	47.96	.052	158.90	.172	6.48	.007	79.41	.086
1852	17.52	.019	54.61	.059	157.87	.170	4.38	.005	107.14	.116
1853	18.15	.020	46.31	.050	178.72	.193	6.52	.007	115.38	.125
1854	16.83	.018	65.97	.071	204.79	.221	8.51	.009	113.93	.123
1855	16.61	.018	82.19	.089	189.02	.204	7.16	.008	108.71	.117
1856	18.02	.019	75.83	.082	207.11	.224	6.24	.007	120.38	.130
1857	22.27	.024	75.21	.081	217.16	.234	5.52	.006	125.96	.136
1858	20.92	.023	66.99	.072	171.36	.185	5.56	.006	100.96	.109
1859	20.16	.022	56.22	.061	187.65	.203	6.31	.007	104.43	.113
1860	17.54	.019	54.50	.059	199.55	.215	5.79	.006	102.86	.111
1861	16.56	.018	65.30	.070	173.65	.187	6.67	.007	96.50	.104
1862	15.69	.017	58.13	.063	177.92	.192	7.24	.008	88.11	.095
1863	15.18	.016	71.81	.078	144.20	.156	7.35	.008	74.64	.080
1864	14.35	.015	64.93	.070	140.21	.151	7.91	.009	97.44	.105
1865	15.57	.017	63.82	.069	126.18	.136	7.94	.009	108.34	.117
1866	19.64	.021	61.76	.067	145.15	.157	8.28	.009	123.66	.133
1867	18.60	.020	58.19	.063	144.09	.156	7.89	.009	102.58	.111
1868	14.81	.016	66.94	.072	157.41	.170	7.18	.008	121.06	.131
1869	14.19	.015	68.01	.073	137.05	.148	7.06	.008	125.03	.135
1870	13.30	.014	67.89	.073	135.03	.146	7.22	.008	123.31	.133
1871	16.35	.018	69.32	.075	138.47	.149	9.07	.010	99.02	.108
1872	25.34	.027	82.78	.089	120.75	.130	7.28	.008	76.49	.083
1873	19.32	.021	56.12	.061	92.23	.100	8.46	.009	83.04	.090
1874	17.06	.018	57.91	.063	102.96	.111	9.10	.010	105.68	.114
1875	15.21	.016	49.51	.053	127.04	.137	9.88	.011	122.19	.132
1876	16.12	.017	78.61	.085	115.94	.125	10.63	.011	111.74	.121
1877	14.58	.016	76.87	.083	125.15	.135	10.68	.012	97.77	.106
1878	12.58	.014	75.56	.082	116.90	.126	10.73	.012	78.13	.084
1879	12.05	.013	64.83	.070	100.50	.108	10.10	.011	72.63	.078
1880	13.09	.014	73.70	.080	108.87	.118	9.11	.010	84.20	.091
1881	12.62	.013	68.34	.074	99.88	.108	8.09	.009	112.16	.121
1882	11.82	.013	55.03	.059	104.33	.113	7.58	.008	116.62	.126
1883	11.04	.012	37.43	.040	110.05	.119	7.82	.008	97.15	.105
1884	10.26	.011	45.68	.049	115.60	.125	8.61	.009	79.52	.086
1885	8.72	.009	48.35	.052	87.08	.094	8.33	.009	67.94	.073
1886	8.25	.009	56.04	.060	87.73	.095	7.68	.008	64.33	.069
1887	8.82	.010	45.06	.049	74.30	.080	8.69	.009	69.32	.075
1888	11.13	.012	38.78	.042	68.09	.074	9.56	.010	85.34	.092
1889	12.65	.014	37.87	.041	67.65	.073	9.69	.010	85.43	.092
1890	17.03	.018	36.04	.039	71.00	.077	8.79	.009	67.68	.073
1891	11.97	.013	35.78	.039	75.11	.081	8.09	.009	66.45	.072

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	151. Steel.		152. Stearine.		153. Coal.		154. Chair cane.		155. Sumac.	
	Per 100 kilos.	Per 2,240 pounds.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per 2,240 pounds.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	14.57	$35.231	24.78	$0.027	1.35	$3.264	31.10	$0.034	21.52	$0.023
1851	14.58	35.256	26.99	.029	1.26	3.047	32.30	.035	18.39	.020
1852	13.17	31.846	24.66	.027	1.26	3.047	32.18	.035	17.37	.019
1853	12.86	31.097	22.98	.025	1.63	3.941	35.48	.038	20.94	.023
1854	10.57	25.559	19.03	.021	1.91	4.619	30.80	.033	25.26	.027
1855	11.01	26.623	20.38	.022	1.77	4.280	32.12	.035	20.80	.022
1856	10.73	25.946	17.39	.019	1.75	4.232	35.66	.038	21.06	.023
1857	18.60	44.976	20.74	.022	1.69	4.087	53.19	.057	20.85	.023
1858	16.32	39.463	29.47	.032	1.48	3.579	48.52	.052	20.04	.022
1859	17.12	41.398	26.53	.029	1.56	3.772	40.81	.044	19.74	.021
1860	20.35	49.208	27.97	.030	1.50	3.627	37.38	.040	21.48	.023
1861	15.03	36.344	24.83	.027	1.59	3.845	36.75	.040	18.77	.020
1862	13.86	33.515	21.50	.023	1.61	3.893	42.31	.046	17.77	.019
1863	12.35	29.843	19.69	.021	1.50	3.627	53.70	.058	17.48	.019
1864	14.72	35.594	22.59	.024	1.58	3.821	58.15	.063	23.15	.025
1865	13.30	32.160	25.76	.028	1.61	3.893	53.40	.058	23.92	.026
1866	13.61	32.910	22.40	.024	1.63	3.941	50.52	.055	23.32	.025
1867	12.85	31.072	22.64	.024	1.60	3.869	29.07	.031	34.56	.037
1868	14.22	34.385	25.21	.027	1.55	3.748	43.51	.047	30.67	.033
1869	14.58	35.256	23.29	.025	1.51	3.651	43.14	.047	33.14	.036
1870	14.96	36.174	24.83	.027	1.50	3.627	44.12	.048	32.63	.035
1871	13.42	32.451	22.02	.024	1.54	3.724	39.51	.043	27.97	.030
1872	12.79	30.927	22.44	.024	2.17	5.247	53.97	.058	27.05	.029
1873	11.48	27.760	24.32	.026	2.76	6.674	53.08	.057	25.65	.028
1874	13.81	33.394	25.00	.027	2.22	5.368	53.66	.060	29.08	.032
1875	14.32	34.627	28.46	.031	1.82	4.401	49.21	.053	29.71	.032
1876	12.00	29.017	24.38	.026	1.63	3.941	48.55	.052	29.10	.031
1877	11.83	28.606	24.28	.026	1.48	3.579	49.31	.053	30.57	.033
1878	11.92	28.823	22.72	.025	1.32	3.192	44.81	.048	29.42	.032
1879	9.20	22.246	22.62	.024	1.22	2.950	39.77	.043	27.91	.030
1880	11.84	28.630	22.25	.024	1.25	3.023	52.33	.056	23.12	.025
1881	12.45	30.105	20.85	.023	1.23	2.974	51.68	.056	24.62	.027
1882	13.36	32.306	19.79	.021	1.23	2.974	51.82	.056	24.02	.026
1883	11.77	28.461	20.51	.022	1.22	2.950	46.69	.050	28.54	.031
1884	11.14	26.937	16.61	.018	1.20	2.902	43.12	.047	29.35	.032
1885	11.17	27.010	15.74	.017	1.17	2.829	43.47	.047	26.40	.029
1886	10.19	24.640	12.06	.013	1.14	2.757	40.19	.043	25.39	.027
1887	9.46	22.875	13.12	.014	1.12	2.708	40.15	.043	23.74	.026
1888	9.89	23.915	12.88	.014	1.13	2.732	39.42	.043	24.94	.027
1889	10.08	24.374	13.48	.015	1.29	3.119	43.41	.047	21.09	.023
1890	10.77	26.043	13.90	.015	1.58	3.821	45.06	.049	23.85	.026
1891	11.91	28.799	16.19	.017	1.63	3.941	50.28	.054	23.71	.026

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	156. Tobacco.		157. Tobacco, Cuba.		158. Tobacco, Domingo.		159. Tobacco, Porto Rico.		160. Tallow.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	109.30	$0.118	201.50	$0.218	125.59	$0.136	91.62	$0.099	69.20	$0.075
1851	111.89	.121	201.74	.218	127.23	.137	88.76	.096	66.24	.072
1852	96.06	.104	172.07	.186	129.46	.140	89.14	.096	76.20	.082
1853	112.42	.121	227.23	.245	91.97	.099	77.45	.084	88.86	.096
1854	108.75	.117	187.03	.202	95.52	.103	63.64	.069	118.49	.128
1855	124.13	.134	192.53	.208	145.53	.157	77.47	.084	104.34	.113
1856	161.76	.175	281.88	.304	195.90	.211	88.24	.095	93.39	.101
1857	165.59	.179	217.42	.235	211.74	.229	125.98	.136	102.96	.111
1858	126.60	.137	187.56	.202	132.14	.143	92.01	.099	97.50	.105
1859	141.25	.152	238.38	.257	131.77	.142	122.86	.133	102.74	.111
1860	146.31	.158	275.45	.297	156.13	.169	123.65	.133	91.40	.099
1861	164.63	.178	313.68	.339	184.55	.199	110.86	.120	93.49	.101
1862	174.33	.188	320.28	.346	158.07	.171	87.78	.095	90.03	.097
1863	141.85	.153	284.41	.307	107.35	.116	82.68	.089	81.71	.088
1864	150.26	.162	208.54	.225	111.87	.121	69.77	.075	82.02	.089
1865	115.14	.124	168.97	.182	100.27	.108	62.94	.068	56.44	.061
1866	99.83	.108	143.45	.155	101.72	.110	50.01	.054	67.21	.073
1867	114.40	.124	120.80	.130	113.01	.122	49.36	.053	87.56	.095
1868	131.18	.142	167.16	.180	88.46	.095	59.43	.064	89.26	.096
1869	146.86	.159	217.08	.234	108.65	.117	93.98	.101	89.15	.096
1870	131.63	.142	244.68	.264	101.19	.109	97.20	.105	87.83	.095
1871	159.22	.172	415.85	.449	104.05	.112	89.86	.097	86.78	.094
1872	177.19	.191	291.84	.315	136.88	.148	89.97	.097	86.55	.093
1873	149.80	.162	385.03	.416	116.02	.125	94.39	.102	84.02	.091
1874	147.91	.160	225.01	.243	92.90	.100	80.11	.086	82.36	.089
1875	140.89	.152	255.00	.275	86.15	.093	83.37	.090	86.29	.093
1876	146.95	.159	.....	.....	83.13	.090	83.95	.091	85.87	.093
1877	142.97	.154	410.00	.443	100.99	.109	80.85	.087	84.42	.091
1878	141.78	.153	318.89	.344	104.24	.113	141.00	.152	81.64	.088
1879	128.97	.139	329.51	.356	95.39	.103	122.45	.132	70.70	.076
1880	135.21	.146	373.34	.403	103.35	.112	97.45	.105	69.52	.075
1881	124.16	.134	177.27	.191	106.92	.115	87.18	.094	73.53	.079
1882	110.43	.119	187.50	.202	74.86	.081	74.92	.081	87.15	.094
1883	107.80	.116	.....	.....	69.60	.075	84.85	.092	90.16	.097
1884	120.31	.130	200.07	.216	68.00	.073	161.82	.175	75.43	.081
1885	124.94	.135	86.14	.093	68.39	.074	77.37	.085	70.72	.076
1886	126.23	.136	.....	.....	79.66	.086	75.31	.081	57.20	.060
1887	114.20	.123	.....	.....	71.93	.078	71.04	.077	55.83	.062
1888	115.67	.125	386.11	.417	66.22	.071	66.44	.072	52.72	.057
1889	125.71	.136	177.14	.191	78.89	.085	61.62	.067	62.27	.067
1890	131.30	.142	223.57	.241	89.15	.096	59.39	.064	55.90	.060
1891	122.32	.132	303.59	.328	76.04	.082	80.08	.086	55.90	.060

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	161. Cordage, new.		162. Catechu.		163. Gambier.		164. Tea.		165. Fish oil.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	64.70	$0.070	40.56	$0.044	27.12	$0.029	287.50	$0.310	58.60	$0.063
1851	65.12	.070	37.99	.041	27.23	.029	297.64	.321	62.38	.067
1852	56.73	.061	40.51	.044	35.54	.038	270.25	.292	62.45	.067
1853	66.93	.072	59.92	.065	55.53	.060	294.66	.318	63.78	.069
1854	102.71	.111	85.69	.093	53.76	.058	284.93	.308	64.40	.070
1855	110.99	.120	54.75	.059	42.63	.046	259.98	.281	74.54	.080
1856	86.74	.094	63.27	.068	37.77	.041	297.87	.322	75.37	.081
1857	85.03	.092	99.79	.108	38.44	.041	341.81	.369	81.47	.088
1858	73.76	.080	73.25	.079	28.25	.030	280.01	.302	66.48	.072
1859	75.97	.082	59.50	.064	33.31	.036	337.10	.364	64.04	.069
1860	74.10	.080	55.54	.060	35.72	.039	379.17	.409	61.02	.066
1861	75.74	.082	51.83	.056	35.03	.038	295.29	.319	64.63	.070
1862	89.03	.096	56.91	.061	34.27	.037	333.97	.361	74.15	.080
1863	83.51	.090	53.76	.058	44.94	.049	350.17	.378	84.56	.091
1864	96.20	.104	50.96	.055	50.62	.055	307.11	.332	93.84	.101
1865	86.24	.093	51.25	.055	44.91	.048	288.13	.311	85.92	.093
1866	92.41	.100	58.76	.063	40.10	.043	277.07	.299	78.57	.085
1867	77.36	.084	84.39	.091	39.66	.043	349.62	.377	75.29	.081
1868	87.40	.094	74.52	.080	38.54	.042	338.72	.366	66.62	.072
1869	89.16	.096	63.49	.069	38.84	.042	316.19	.341	67.48	.073
1870	84.26	.091	47.14	.051	34.47	.037	286.86	.310	69.71	.075
1871	84.61	.091	53.85	.058	35.64	.038	280.12	.302	63.82	.074
1872	88.00	.095	50.59	.055	46.02	.050	302.08	.326	66.30	.074
1873	94.02	.102	46.69	.050	51.47	.056	282.98	.305	56.83	.061
1874	86.78	.094	56.55	.061	52.04	.056	279.60	.302	60.46	.065
1875	80.36	.087	50.86	.055	53.16	.057	288.53	.311	59.70	.064
1876	80.57	.087	51.64	.056	47.48	.051	284.31	.307	60.17	.065
1877	79.15	.085	52.56	.057	42.08	.045	237.41	.256	58.17	.063
1878	77.99	.084	54.36	.059	38.50	.042	223.23	.241	57.51	.062
1879	70.34	.076	52.55	.057	35.56	.038	258.24	.279	47.35	.051
1880	75.60	.082	66.40	.072	38.79	.042	236.62	.255	45.57	.049
1881	73.40	.079	58.32	.063	37.19	.040	226.07	.244	53.12	.057
1882	78.54	.085	53.47	.058	48.06	.052	222.79	.241	62.93	.068
1883	80.56	.087	54.66	.059	56.42	.061	212.42	.229	67.06	.072
1884	77.09	.083	55.99	.060	49.69	.054	215.31	.233	56.81	.060
1885	77.16	.083	49.66	.054	40.59	.044	205.64	.222	46.66	.050
1886	75.46	.081	56.13	.061	44.46	.048	202.13	.218	40.79	.044
1887	74.20	.080	58.43	.063	45.65	.049	176.80	.191	39.09	.042
1888	78.09	.084	57.49	.062	47.83	.052	205.45	.223	37.47	.042
1889	83.02	.090	51.71	.056	57.06	.062	204.34	.221	38.57	.040
1890	79.01	.085	65.31	.071	55.28	.060	198.47	.214	32.85	.035
1891	78.94	.085	55.79	.060	44.71	.048	214.74	.233	39.30	.043

EXHIBIT A.—*Import prices of 80 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	166. Wax.		167. Whale and fish bone.		168. Spermaceti.		169. Wine.		170. Wine, excluding champagne.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	245.30	$0.265	395.32	$0.427	397.62	$0.429	47.34	$0.051	39.73	$0.043
1851	279.72	.302	347.12	.375	485.79	.524	41.05	.044	33.78	.036
1852	263.13	.284	543.09	.586	390.00	.421	44.00	.048	36.69	.040
1853	278.62	.301	361.55	.390	340.93	.368	49.78	.054	43.96	.047
1854	264.08	.285	409.60	.442	314.81	.340	69.37	.075	63.58	.069
1855	252.07	.272	489.94	.529	315.60	.341	99.55	.107	87.82	.095
1856	275.83	.298	636.79	.687	437.27	.472	90.02	.097	80.80	.087
1857	268.73	.290	911.63	.984	466.03	.503	112.24	.121	103.30	.112
1858	257.40	.278	1,002.63	1.082	440.47	.476	74.95	.081	66.72	.072
1859	255.96	.276	876.08	.946	407.93	.440	59.57	.064	54.70	.059
1860	301.13	.325	824.53	.890	347.76	.375	79.42	.086	73.21	.079
1861	262.59	.283	753.73	.814	292.67	.316	80.93	.087	74.27	.080
1862	199.84	.216	736.26	.795	276.00	.298	71.01	.077	63.68	.069
1863	245.97	.266	1,029.86	1.112	251.79	.272	71.02	.077	63.52	.069
1864	326.98	.353	900.51	.972	227.47	.246	63.05	.068	57.27	.062
1865	272.38	.294	971.90	1.049	223.86	.242	62.64	.068	57.91	.063
1866	266.59	.288	1,063.92	1.149	268.12	.289	50.50	.061	51.57	.056
1867	324.18	.350	949.05	1.025	311.79	.337	65.68	.071	59.83	.065
1868	299.95	.324	675.95	.730	331.09	.357	68.71	.074	61.53	.066
1869	320.03	.345	883.67	.954	353.97	.382	63.16	.068	58.54	.063
1870	294.33	.318	774.96	.837	292.26	.316	57.93	.063	53.32	.058
1871	312.15	.337	766.04	.827	260.33	.281	63.73	.069	57.52	.062
1872	336.45	.363	1,073.09	1.158	265.26	.286	63.51	.069	57.45	.062
1873	206.02	.287	919.24	.992	231.93	.250	71.82	.078	66.99	.072
1874	273.83	.296	926.31	1.000	230.63	.249	84.60	.091	80.18	.087
1875	249.85	.270	1,061.85	1.146	248.91	.269	67.72	.073	64.54	.070
1876	219.01	.236	1,157.72	1.250	248.68	.268	66.27	.072	62.52	.067
1877	184.41	.199	1,217.79	1.315	258.56	.279	79.49	.086	75.03	.081
1878	218.31	.236	1,593.89	1.721	245.94	.266	84.04	.091	79.89	.086
1879	185.78	.201	1,002.89	1.083	223.18	.241	81.52	.088	77.94	.084
1880	175.23	.189	1,689.26	1.824	210.02	.227	91.60	.099	86.10	.093
1881	181.87	.196	1,298.37	1.402	186.55	.201	94.00	.101	88.78	.096
1882	147.62	.159	1,428.06	1.542	163.86	.177	88.83	.096	82.71	.089
1883	179.51	.194	1,770.41	1.911	172.59	.186	91.08	.098	83.73	.090
1884	167.62	.181	1,926.06	2.079	196.21	.212	78.74	.085	73.00	.079
1885	154.88	.167	1,252.67	1.352	128.94	.139	79.07	.085	74.51	.080
1886	133.86	.145	1,186.86	1.281	95.50	.103	76.57	.083	71.84	.078
1887	146.42	.158	2,055.18	2.219	97.12	.105	78.94	.085	74.90	.081
1888	151.23	.163	1,450.14	1.566	90.78	.098	79.18	.085	75.95	.082
1889	132.56	.143	1,522.16	1.643	89.22	.096	84.02	.091	80.07	.086
1890	134.59	.145	1,373.23	1.482	85.42	.092	90.49	.098	86.17	.093
1891	141.45	.153	1,946.71	2.102	100.17	.108	87.79	.095	82.50	.089

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Continued.

Year.	171. Champagne.		172. Wine, French.		173. Wine, Portuguese.		174. Wine, Spanish.		175. Wheat.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per bushel.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	300.42	$0.324	30.95	$0.033	89.56	$0.097	40.44	$0.044	15.22	$0.9[illegible]
1851	309.68	.334	26.88	.029	83.78	.090	49.60	.054	16.08	1.042
1852	298.45	.322	27.69	.030	83.14	.090	49.29	.053	15.36	.995
1853	309.49	.334	36.41	.039	102.18	.110	54.62	.059	20.51	1.329
1854	308.67	.333	53.16	.057	122.62	.132	62.07	.067	27.55	1.7[illegible]
1855	319.48	.345	74.21	.080	139.27	.150	72.03	.078	31.01	2.009
1856	322.59	.348	63.37	.068	189.10	.204	86.50	.093	23.90	1.54[illegible]
1857	352.53	.381	77.01	.083	199.15	.215	110.51	.119	19.79	1.2[illegible]
1858	337.11	.364	53.97	.058	206.90	.223	97.00	.105	19.40	1.25[illegible]
1859	335.04	.362	42.60	.046	188.62	.204	73.97	.080	18.99	1.23[illegible]
1860	337.65	.365	59.35	.064	198.24	.214	85.36	.092	22.56	1.457
1861	324.78	.351	62.89	.068	214.72	.232	89.78	.097	24.72	1.60[illegible]
1862	334.28	.361	56.17	.061	193.89	.209	60.72	.066	21.94	1.421
1863	339.63	.367	52.11	.056	263.61	.285	102.09	.110	20.18	1.30[illegible]
1864	331.47	.358	41.79	.045	198.51	.214	85.05	.092	17.17	1.112
1865	335.47	.362	47.65	.051	194.45	.210	82.56	.089	18.81	1.21[illegible]
1866	365.23	.394	39.46	.043	186.36	.201	95.62	.103	21.05	1.36[illegible]
1867	376.09	.406	47.25	.051	186.30	.201	93.85	.101	24.33	1.576
1868	352.75	.381	51.23	.055	194.64	.210	88.50	.096	25.78	1.67[illegible]
1869	354.73	.383	49.71	.054	122.59	.132	82.97	.090	21.11	1.36[illegible]
1870	354.01	.382	42.92	.046	151.20	.163	64.44	.070	20.61	1.33[illegible]
1871	368.07	.397	48.66	.053	182.18	.197	76.69	.083	24.10	1.561
1872	380.74	.411	57.22	.062	161.11	.174	70.62	.076	24.16	1.565
1873	381.97	.412	64.08	.069	151.73	.164	61.10	.066	25.24	1.635
1874	397.25	.429	76.33	.082	168.37	.182	69.75	.075	24.28	1.573
1875	390.08	.421	59.97	.065	158.04	.171	67.86	.073	20.17	1.306
1876	378.28	.408	56.21	.061	148.03	.160	71.42	.077	20.57	1.332
1877	391.81	.423	70.63	.076	150.86	.163	67.91	.073	23.08	1.495
1878	370.30	.400	77.53	.084	159.79	.173	72.25	.078	18.92	1.226
1879	376.69	.407	75.40	.081	160.88	.174	70.18	.076	21.77	1.410
1880	393.94	.425	92.30	.100	167.83	.181	64.98	.070	21.21	1.374
1881	415.47	.449	91.96	.099	142.62	.154	70.50	.076	21.37	1.384
1882	403.59	.436	79.77	.086	124.69	.135	74.17	.080	19.91	1.290
1883	419.52	.453	83.32	.090	114.52	.124	76.74	.083	18.17	1.177
1884	389.95	.421	66.56	.072	118.68	.128	71.96	.078	16.54	1.071
1885	387.13	.418	70.41	.076	113.97	.123	69.32	.075	14.85	.962
1886	370.96	.400	73.25	.079	86.96	.094	63.13	.068	14.85	.962
1887	375.33	.405	73.28	.079	107.69	.116	64.91	.070	14.96	.970
1888	368.95	.398	75.20	.081	122.72	.132	65.30	.070	14.42	.934
1889	413.82	.447	73.86	.080	121.02	.131	88.97	.096	14.29	.926
1890	415.05	.448	84.53	.091	122.11	.132	92.80	.100	14.80	.959
1891	440.82	.476	88.63	.096	116.81	.126	73.59	.070	18.46	1.196

EXHIBIT A.—*Import prices of 180 commodities in Hamburg, Germany, from 1850 to 1891, with equivalents in United States money and measures*—Concluded.

Year.	176. Wool, sheep and lamb.		177. Wool, shoddy.		178. Tartar of wine, crude.		179. Tartar of wine, pure.		180. Tin.	
	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.	Per 100 kilos.	Per pound.
	Marks.		*Marks.*		*Marks.*		*Marks.*		*Marks.*	
1850	284.65	$0.307	.....	.....	79.34	$0.086	137.40	$0.148	151.16	$0.163
1851	297.00	.321	.....	.....	86.70	.094	130.13	.140	159.74	.172
1852	241.14	.260	.....	.....	76.99	.083	125.24	.135	172.55	.186
1853	237.16	.256	.....	.....	88.93	.096	189.61	.205	244.81½	.264
1854	279.46	.302	40.00	$0.043	150.45	.162	245.59	.265	235.11	.254
1855	277.28	.299	27.27	.029	157.43	.170	216.09	.233	230.93	.249
1856	313.11	.338	28.75	.031	155.30	.168	220.43	.238	266.18	.287
1857	355.73	.384	25.00	.027	119.88	.129	216.73	.234	298.25	.322
1858	208.54	.225	80.45	.087	108.20	.117	214.07	.231	245.26	.265
1859	263.27	.284	56.57	.061	114.84	.124	252.81	.273	273.64	.295
1860	323.14	.349	119.43	.129	131.65	.142	274.22	.296	278.59	.301
1861	259.25	.280	131.34	.142	136.27	.147	256.48	.277	244.55	.264
1862	250.09	.270	153.79	.166	135.46	.146	241.47	.261	244.32	.264
1863	284.42	.307	132.25	.143	134.60	.145	222.03	.240	260.61	.281
1864	281.08	.303	131.03	.141	139.59	.151	215.65	.233	224.14	.242
1865	313.49	.338	127.10	.137	120.20	.130	204.56	.221	198.43	.214
1866	283.09	.306	134.74	.145	109.84	.119	182.06	.197	178.18	.192
1867	259.25	.280	108.08	.117	109.92	.119	163.31	.176	186.11	.201
1868	307.10	.332	104.59	.113	112.38	.121	157.23	.170	192.73	.208
1869	287.95	.311	92.39	.100	90.33	.098	178.38	.193	249.70	.270
1870	307.22	.332	91.98	.099	86.00	.093	176.99	.191	257.67	.278
1871	298.11	.322	102.55	.111	101.58	.110	198.33	.214	276.79	.299
1872	419.63	.453	122.26	.132	176.53	.191	229.16	.247	311.76	.337
1873	381.14	.411	118.84	.128	142.23	.154	233.71	.252	298.14	.322
1874	319.14	.345	172.08	.186	144.54	.156	235.58	.254	212.87	.230
1875	329.26	.355	192.48	.218	160.93	.174	233.11	.252	198.83	.215
1876	275.70	.298	177.35	.191	163.04	.176	221.86	.240	184.55	.199
1877	292.41	.316	125.90	.136	161.33	.174	215.55	.233	163.71	.177
1878	297.00	.321	130.11	.140	145.88	.157	211.35	.228	145.62	.157
1879	310.47	.335	154.40	.167	145.37	.157	217.39	.235	146.30	.158
1880	296.01	.320	228.72	.247	164.74	.178	243.84	.263	177.88	.192
1881	288.38	.311	214.39	.231	157.34	.170	237.63	.257	187.76	.203
1882	262.26	.283	200.29	.216	163.58	.177	234.44	.253	200.26	.216
1883	244.08	.263	193.50	.209	173.77	.188	266.13	.287	200.54	.216
1884	198.47	.214	117.70	.127	181.69	.196	219.38	.237	184.49	.199
1885	202.10	.218	126.80	.137	178.57	.193	243.47	.263	170.24	.184
1886	185.68	.200	80.14	.087	187.55	.202	234.24	.253	172.52	.186
1887	183.52	.198	91.57	.099	174.13	.188	231.85	.250	188.42	.203
1888	151.99	.164	91.15	.098	158.12	.171	189.35	.204	213.22	.230
1889	165.90	.179	82.41	.089	124.79	.135	170.78	.184	184.27	.199
1890	175.01	.189	104.17	.112	119.26	.129	155.90	.168	177.20	.191
1891	170.34	.184	104.54	.113	120.25	.130	181.40	.196	174.21	.188

APPENDIX B.

REPORT OF THE COMMISSIONER OF LABOR.

DEPARTMENT OF LABOR,
Washington, D. C., August 19, 1892.

DEAR SIR: I have the honor to forward herewith the original data collected by this Department relative to rates of wages and prices of commodities covering the period from 1840 to 1891, inclusive, with the tabulated results and tabulations of data collected by the experts employed directly by your committee.

The larger part of this material has been transmitted to your committee from time to time as completed, but with this letter the final tables are handed you.

The wholesale prices of commodities for 52 years are, as a rule, the prices at which such commodities were sold at first hands, that is, by producers, and the prices have been taken, except where noted to the contrary, from actual sales.

The rates of wages for 52 years, with the exception of those for the coal, iron, glass, and pottery industries, were collected by this Department from actual payrolls.

The following is a list of the tables herewith transmitted to you:

X.—Wholesale prices of farm products for 52 years.
XI.—Wholesale prices of commodities for 52 years.
XII.—Rates of wages for 52 years.
XIII.—Rates of wages for 52 years in the coal, iron, glass, and pottery industries.
XIV.—Teachers' salaries for 52 years.
XV.—Prices paid by the Bureau of Provisions and Clothing (Navy Department), 1840–'92.
XVI.—Prices paid by the Office of the Quartermaster General (War Department), 1840–'91.
XVII.—Prices paid by the Office of the Surgeon General (War Department), 1840–'91.
XVIII.—Prices paid by the Office of the Commissary General of Subsistence (War Department), 1840–'91.
XIX.—Prices paid by the Office of Indian Affairs, 1877–'92. Clothing, etc.
XX.—Prices paid by the Office of Indian Affairs, 1877–'92. Food, etc.

The facts comprehended in Table X, wholesale prices of farm products for 52 years, were collected for your committee under the direction of Col. J. R. Dodge, Statistician of the Department of Agriculture. Those comprehended in Table XI, wholesale prices of commodities for 52 years, were collected in the main by this Department through its corps of agents and experts. In some cases experts employed directly by the committee furnished the data for the tabulation. The facts for Table XII, rates of wages for 52 years, were collected entirely by this Department. Those for Table XIII, rates of wages for 52 years in the coal, iron, glass, and pottery industries, were collected for your commit-

tee, directly under your supervision, by Joseph D. Weeks, esq., of Pittsburgh. The data from which Table XIV, teachers' salaries for 52 years, has been constructed, were furnished by the Bureau of Education, under the direction of Hon. William T. Harris, Commissioner of Education. The facts for all the other tables, from XV to XX, inclusive, were obtained from the bureaus named in the titles of said tables, through the courtesy of the heads of the Departments to which such bureaus belong, and with the hearty and cordial assistance of the chiefs of the bureaus.

All the facts shown in the tables transmitted herewith have been collected and tabulated with the same care that was exercised in securing and tabulating the data relating to the retail prices referred to in my letter of July 15, 1892, and as printed in the report of your committee, being report 986 of the Senate. I need not, therefore, repeat the statements made therein.

There will be transmitted later on a table showing wholesale prices for 52 years of some additional commodities, with two supplementary tables which complete the series of prices and wages of Tables XI and XII to October 1892.

The following is a list of the new tables to be transmitted:

XXI.—Additional wholesale prices of commodities for 52 years.
XXII.—Wholesale prices of commodities in October 1891, and October 1892.
XXIII.—Rates of wages in July 1891, and October 1892.

It is a pleasure to renew my acknowledgments to Mr. Oren W. Weaver, the chief clerk of this Department, and Mr. G. W. W. Hanger, statistical expert, for their valuable assistance in carrying out the wishes of your committee.

I am, very respectfully, your obedient servant,

CARROLL D. WRIGHT,
Commissioner of Labor.

Hon. NELSON W. ALDRICH,
Chairman Sub-committee on Tariff,
Committee on Finance, United States Senate.

APPENDIX C.

REPORT OF THE STATISTICIAN, DEPARTMENT OF AGRICULTURE.

U. S. DEPARTMENT OF AGRICULTURE,
DIVISION OF STATISTICS,
Washington, D. C., September 5, 1892.

SIR: In accordance with the request of your committee, an investigation has been made of prices of certain principal farm products, in representative commercial cities, the results of which have been duly presented to you. The requirement was for quarterly quotations in each year since 1840, to show the course of prices for half a century.

The cities selected were New York, Cincinnati, and Chicago. It was understood, as to the latter, which has had most of its growth, and nearly all of its business development, during the past twenty years, that it would be difficult to complete the earlier quotations satisfactorily; and a similar defect in the results of the first decade of the inquiry in Cincinnati was expected. Indeed, it was not an easy task, even in New York, to secure average prices for the same quality and kind of product, before the organization of authoritative boards for the regulation of classifications and the systematic record of daily transactions.

The following list selected, including such staple products as might admit of classification and averaging, was suggested. It was recognized that fruits and vegetables, variable in quality and diverse in variety, and so perishable that values depend upon relative freshness, could not be quoted with any promise of a useful analysis. So with many other minor products of the farm, of very unequal local distribution, and peculiarly subject to vicissitudes of the seasons, causing fluctuations militating against any satisfactory comparison of prices. It is sufficiently difficult, as to staple products, to find an unchanging basis of comparison. The following products are included in the list:

Animals for slaughter:
- Beeves, per 100 pounds, live weight.
- Sheep, per 100 pounds, live weight.
- Lambs, per 100 pounds, live weight.
- Swine, per 100 pounds, live weight.

Hides, raw, per pound.
Corn, No. 2, per bushel.
Wheat, No. 2, per bushel.
Oats, No. 2, per bushel.
Rye, per bushel.
Barley, per bushel.
Clover seed, per bushel.
Flaxseed, per bushel.
Timothy seed, per bushel.
Hemp, per ton.
Cotton, middling, per pound.

The quotations were made from the records of commercial bodies, under the direction, as far as possible, of the responsible officers of those organizations. The Produce Exchange of New York, the New York Cotton Exchange, the Chamber of Commerce of Cincinnati, and the Board of Trade of Chicago furnished all needed facilities for the prosecution of the work for the periods covered by their systematic records; and prior to their initial dates recourse was had to the regular price-records in the principal newspapers of the time, books of old mercantile firms and all available means of obtaining just and discriminating views of prices.

The local work in New York was under the immediate direction of Hon. Alonso Bell, formerly Assistant Secretary of the U. S. Department of the Interior; in Cincinnati was conducted by Superintendent Charles B. Murray, the executive officer of the Chamber of Commerce; and in Chicago was directed by Mr. B. Frank Howard, editor of the Chicago Daily Trade Bulletin.

In certain products the grades are so diverse in kind and quality, or have been on the market for so short a period, that breaks must necessarily occur in this record of a half century. In view of these and other difficulties in fixing a uniform basis for a continuous comparison, it is believed that the results of the investigation have been highly successful, furnishing the most reliable record of prices available for this important period in the history of the agricultural production of the United States.

Very respectfully,

J. R. DODGE,
Statistician.

Hon. NELSON W. ALDRICH,
Chairman Sub-committee on Tariff,
Committee on Finance, United States Senate.

APPENDIX D.

REPORT OF THE COMMISSIONER OF EDUCATION.

DEPARTMENT OF THE INTERIOR,
BUREAU OF EDUCATION,
Washington, D. C., August 17, 1892.

SIR: I beg leave to submit herewith some figures showing comparative rates of wages for teachers for the past 50 years. For this purpose I have selected the cities of Boston, Baltimore, Cincinnati, and St. Louis, partly for the reason that these cities serve as an index for wages in different parts of the United States, and partly for the reason that records of salaries extending back a half century are easily accessible in these cases.

I have also added some statistics of the rural districts of Massachusetts. Statistics are not accessible for the rural districts of other parts of the Union so far as I know. The counties of Barnstable and Franklin contain no cities or large villages, and the summaries given will show approximately how wages have been running in rural districts for the past 50 years. In extending these statistics to other parts of the country by way of a basis of estimate, one must remember that the wages of teachers in Massachusetts have kept ahead of the rest of the country by nearly twenty-five per cent; that is to say, while in Boston the wages of the masters of grammar schools have risen to $2,880 per annum, the salaries in the other cities of same grade of teachers have risen to $2,200 as a maximum. Perhaps one may say that it is safer to allow 40 per cent than 25 per cent.

Very respectfully,

W. T. HARRIS,
Commissioner.

Hon. NELSON W. ALDRICH,
Chairman Sub-committee on Tariff,
Committee on Finance, United States Senate.

APPENDIX E.

REPORT OF MR. S. N. D. NORTH.

NATIONAL ASSOCIATION OF WOOL MANUFACTURERS.

Office, 70 Kilby Street, Boston, Mass., June 6, 1892.

DEAR SIR: In accordance with the request of the sub-committee of the Finance Committee of the Senate, I have devoted a large part of my time, for several months past, to the work of securing yearly quotations of the market prices of the different varieties of woollen goods (exclusive of carpets), to be used by the committee in its investigation of the course of prices during the last fifty years. I have made use of the blanks prepared for that purpose by the Department of Labor, and have carefully observed all the rules and methods adopted by the committee. I have addressed personally, or by letter, or through the agents of the Department of Labor, more than 200 woollen manufacturers located in different sections of the country, confining my applications for data chiefly to mills that have been long in existence, and whose goods are known in the market as standard. I have received at the hands of all of them the most courteous response, and encountered a cheerful readiness to do everything in their power to aid the committee in its work.

Nevertheless, the results are extremely disappointing and unsatisfactory, probably more so than will be encountered by the committee in any other branch of its inquiry. This is due to certain recognized and unavoidable limitations, not elsewhere existing, the nature and effect of which it is proper to explain in detail, for they have an important bearing upon any conclusions the committee may seek to draw from the limited number of price lists that have been secured.

The difficulty is due, primarily, to the fact that in every variety of woollen goods the characteristics of the fabric undergo constant changes so fundamental as to make it no longer the same fabric, except perhaps in name, and no longer an article the price of which in one year is properly comparable with its price in another.

The decrees of fashion compel more frequent modifications in pattern, in weave, in texture, and in material, in woollen goods, than in any other line of manufactures.

The variations in the raw material are so great that very few mills manufacture the identical goods from year to year for a period of years long enough to answer the purposes of the committee.

In both respects the wool manufacture differs from every other textile industry, and the standards of comparison, applicable to others, can not be applied to it. In cotton goods a print cloth made of No. 28 and No. 36 yarns, in 1860, is identical with a print cloth made of the same yarns in 1890. You can find no parallel to that illustration in woollen

goods, for while weave, weight, picks, etc., may remain the same in a flannel there have occurred variations in the wool supply in the interval sufficient to justify the claim that while nominally the same fabric at both periods, it is not actually identical. Cotton is the same fiber at all times, with but two or three well defined varieties. Silk is uniform everywhere, and at all times. But wool differs in condition and characteristics every year, and from every locality, and the different breeds, grades, sorts, and varieties accessible to the manufacturer are innumerable. As a matter of fact, all wool manufacturers are constantly changing the sources from which they draw their raw material.

This variation in the raw material is more fully explained in the letter of Mauger & Avery, accompanying their tables of the prices of foreign and domestic wools, and they have found it exceedingly difficult to present satisfactory comparisons because of it. Australasian wool was not known or used to any extent in this country prior to about 1870, and we are now consuming about 26,000,000 pounds annually. Up to the tariff of 1867 we were consuming mestiza or South American clothing wool very largely in our fabrics for popular wear. Since that date we have used practically none of this wool. In the interval, also, has grown up that immense source of the domestic supply, commonly called "Territorial," coming from west of the Mississippi River, and possessing characteristics essentially different from the wools of the Middle and Eastern States, which were formerly chiefly relied upon.

Again, the substitution of merino or clothing wool for the long combing wools (class 2 in the tariff clasification), which were exclusively used in the worsted manufacture prior to about 1873, made possible by the improvement in combing machinery, has effected another revolution in the manufacture.

All these variations in material have involved essential variations in fabrics so radical as to render comparisons in prices in most instances statistically impossible.

Again, the use of substitutes for wool is of comparatively modern origin, and it has given birth to a new line of fabrics, unknown to our ancestors, possessing many qualities which commend them to popular use, and permitting poor people to clothe themselves satisfactorily and even handsomely at a cost much less than was formerly possible.

The best illustration of the latter is the case of satinets, a fabric still widely worn, as it was in the early days of the Republic, but no longer made by the same processes or of the same materials, and no longer therefore a fabric which it is proper or even possible to compare with itself in any effort to trace the course of prices.

It has been found impossible to obtain any line of quotations which will indicate the effect upon prices of the improved machinery in the manufacture of shoddy and the kindred species of renovated wool, and in the utilization of the wastes engendered by machine manufacture, which were formerly lost. The cloths thus made differ so radically in their constituents from year to year, that after most diligent inquiry I have not discovered a single mill whose make, for any length of time, has been sufficiently uniform to permit of a comparison of prices.

Again, the use of cotton, in admixture with wool, has had a powerful influence in reducing the cost of clothing. It is true that the cotton warp, with a wool filling, as a combination for the cheaper grades of men's wear cloths, is as old as the country itself. The records of the census of 1820 reveal the fact that the majority of the mills then employed in the manufacture of woollen goods were engaged in the manu-

facture of these mixed goods, commonly called satinets, and already referred to. It is true, also, that in the earlier days the men, as well as the women, were clad very largely in all cotton garments, such as corduroys and jeans, to which they were compelled by the high prices of wool. Such goods are now almost obsolete, and the people are in consequence much more warmly and healthily clad than formerly. In addition to the cotton warp, cotton is now spun with wool, into a yarn known as merino, and permitting a much cheaper fabric, possessing some at least of the virtues of woollen garments.

These are all changes in the methods of fabrication, having a most important bearing upon an investigation of this character, the influence of which upon prices it is unfortunately impossible to statistically present, for the reason already stated—the impossibility of obtaining any uniform standard of comparison.

It is beyond denial that there has been a very great cheapening of clothing to the people of the United States in the last fifty years, effected by changing the character of fabrics, which changes place all fabrics to which they apply, outside the limits of the investigation of the committee. In which the most important reductions in prices, effected by producing new and cheaper fabrics which answer all the purposes of those they supercede, must be entirely lost sight of. Shut out from considering all reductions in price which involve any modification in the character of the cloth, the committee is necessarily deprived of the most important data, and in fact the only true data, for determining the relative cost of clothing at two periods at all remote from each other.

The influence of these changes in the methods of fabrication has been particularly noticeable in fabrics for women's wear, in which the introduction of the cotton warp is of comparatively recent origin.

So marked have been the changes above referred to, in the manufacture of woollen goods, that as a result of inquiries carried on among more than 200 mills, it has been possible to find not more than a score which have made goods of a character so uniformly identical as to permit of satisfactory quotations of prices for any considerable number of years. Either by changes in the weight or width of the goods, by the use of a different number or count of yarn or a different grade of stock in its preparation, or a change in the number of picks, or a modification of the finish, the goods are no longer the same as they were ten, twenty, or more years ago.

The Pacific Mills, one of the largest of our establishments for the manufacture of ladies' dress goods, stated that they are not manufacturing to-day a single fabric which they made ten years ago or one so nearly identical with any fabric made prior to that date, that quotations of prices could be accepted as indicating the value of the same article from year to year. As to their present production, they stated that better fabrics than were formerly made are being constantly put upon the market at lower prices than the nearest corresponding grade of dress goods commanded at the time of their manufacture.

The Arlington Mills reported the same variations in their fabrics of similar character. A particular instance is given by this mill, that of black alpacas, mohairs, and brilliantines, a class of dress fabrics not undertaken in this country until 1872, in whose manufacture this mill achieved a remarkable success, which continued until the change of fashion led to their entire abandonment, and nothing is now manufactured in this mill which admits of any comparison in prices.

It thus happens that it is impossible to carry on a single line of

quotations in woollen goods, from among the numbers of quotations which are contained in the annual report of the Secretary of the Treasury, Hon. W. M. Meredith, in 1849.

The introduction of the domestic manufacture of worsted goods for men's wear, which dates from about the year 1869, has increased the difficulties of such a comparison, for it has effected something in the nature of a revolution in the manufacture. Woollen and worsted goods are now manufactured in nearly equal proportions for men's clothing, and they differ so radically in manufacture, and have acted and reacted upon each other in such a way as to frequently introduce abnormal conditions.

I may illustrate the effect of all these changes by the case of broadcloths. Fifty years ago this fabric was very widely worn, and a great majority of the mills were engaged in its manufacture. To-day it is hardly worn at all, and the single mill which now makes it, for special and limited purposes, employs most of its machinery upon other fabrics. This mill, the Slater Company, at Webster, Mass., has furnished quotations for the whole period, which show a reduction in the price of the first quality of black broadcloth made from XXX wool from $3.15, in 1840, to $1.97, in 1891, but the price reported for 1891 is identical with that reported for 1860. There being no longer any competition in these goods and no popular use for them, and an extremely limited production, the manufacturers are able to make and keep their prices from year to year, and they thus afford no criterion by which to judge of the general course of prices in woollen goods. To include them in ascertaining a general average would be to destroy the value of that average. Such an average must be based upon goods which continue in popular use and are thus subject to the ordinary laws of competition.

I find upon consultation with manufacturers who were engaged in the practical manufacture of woollen goods before the war, that their general judgment is that prices will now average about 25 per cent less than in 1860. This judgment is based upon the general knowledge they have from their books of the course of prices rather than upon calculations which are made from the prices obtained for any particular fabric. In calculating this reduction, they include the less favorable terms they are now able to obtain, of which it is impossible to take cognizance in a statistical investigation. The present terms in the woollen trade are exceedingly trying. The abuse of "dating ahead" is carried to such an excess that the manufacturer, in most instances, actually begins his production for the year to come before he has received his money for the production of the previous year. The extension of credits is of course equivalent to a reduction in price, but it can not be indicated in market quotations.

With this reduction in prices the perfection of machinery has had much to do, but it is not possible to indicate how much. The most radical improvements in woollen machinery, outside the worsted industry, were generally in vogue prior to the war. But subsequent modifications have materially increased its efficiency. The woollen card is now made with wider cylinders, and feeders and other attachments have increased its capacity with a diminution of the labor required to operate. In spinning machinery the old fashioned hand jack is now superceded by the automatic mule. In almost all American woollen mills spinning continued to be done on the hand jack down to the close of the civil war, and it may still be found in a number of the smaller mills. The hand jack usually carries 240 spindles, mules carry 300 or more spindles, and the economical gain in production as well as in the saving of

labor, is very great. The increase in production has been estimated as high as 30 per cent and the decreased cost of spinning as high as 50 per cent on the same wage basis.

Up to 1857 broad looms were run at about 45 picks per minute. In that year the Cromptons placed on the market a fancy loom, with 24 harness capacity, operating at a speed of 85 picks per minute, and no subsequent advance in weaving apparatus has been so great. Broad looms are run at the present time at 90 to 95 picks per minute, and in some instances 100 to 105. Other improvements, such as stop motions, power pick-finding devices, etc., enable a larger production from looms than the difference in speed would indicate, but it is impossible to say what the percentage of gain is. Narrow looms, except for pattern work, have not been manufactured to any extent since 1870. There have been improvements in finishing machinery also, but not equal to those in weaving.

To offset the gain in the efficiency of machinery has come the great increase in the wages of operatives since 1860—an increase which is variously estimated at from 50 to 75 per cent, and the exact average of which increase it is to be hoped your investigation will be able to determine. While a much smaller number of operators will produce a given amount of product, as compared with 1860, it seems probable that the payroll, to produce it, will be about the same in amount as then.

The main decrease in the cost of woollen goods must therefore be attributed to the decline in the prices of the raw material, and to the closer margins on which goods are sold.

The difference in the domestic price of wool, in 1891, as compared with 1860, is difficult to determine, owing to the great change in the condition of domestic fleeces as marketed. Ohio fine wool, the average price of which for 1859, 1860, and 1861 was 52¼ cents, (according to Mauger & Avery's tables, Appendix F,) yielded at that time from 52 @ 60 per cent in scoured condition. The average price in the same wool in 1889, 1890, and 1891 was 32⅝ cents, but its average yield to-day is but 44 @ 48 per cent.

It therefore seems safe to say that the decline in the prices of home-made manufactured goods has been greater than the decline in the prices of the domestic raw material.

Respectfully submitted.

S. N. D. NORTH,
Secretary.

Hon. NELSON W. ALDRICH,
Chairman Sub-committee on Tariff,
Committee on Finance, United States Senate.

APPENDIX F.

REPORT OF MESSRS. MAUGER AND AVERY.

BOSTON, MASS., *June 6, 1892.*

DEAR SIR: In accordance with the request of the finance committee, we have prepared the inclosed table showing the average price of American wool in Boston, taking the scoured value of fine Ohio fleece wool as a basis, and the price in London of average Australian fleece, scoured, in each year since 1850.

It was not possible to carry this table back to 1840, as requested by you. These earlier figures, if accessible, would be valueless for comparative purposes, because the Australian wool clip was not so important a factor in the London wool market prior to 1850, in which year the total production of this wool had only reached 39,000,000 pounds.

It is proper to state that the chief foreign supply in the United States of merino wools between 1840 and 1850, and for many years after, were those of the Cape of Good Hope, and the South American mestiza. These were, however, mainly consumed by a few of the manufacturers of felts, broadcloths, and flannels, and did not compete to any great extent with American fleeces. The imports from South America in 1845 were 12,278,787 pounds, while the total imports of foreign wool in that year were only 23,896,294 pounds, including carpet wools. Trustworthy quotations of the mestiza wools for the whole of this period are not obtainable.

Comparisons between the prices of Ohio fine wool and the corresponding grade of Australian wool cannot properly be made in the earlier years of this table, and have but little significance, and therefore should not be attempted, although we have supplied the figures in accordance with your request.

Such a comparison between Ohio and Australian wools cannot properly be made prior to 1879; for the premium on gold, from 1861 to that year, introduces an element of uncertainty in the calculation which still further disturbs accuracy. Until the year 1872 the American imports of Australian wool were very small. In that year the importations direct jumped suddenly to 12,748,548 pounds, never having reached one million pounds per annum prior to that date. On account of the discriminating duty of 10 per cent on imports east of the Cape of Good Hope when imported from Europe, these wools were all imported direct up to and including that year, when the extra duty was repealed.

This large importation of 1872 introduced the Australian wools for the first time in quantities to American manufacturers. Again in 1879 and 1880, these wools were imported very largely, and began to be more generally popular with American manufacturers, who found that a percentage of Australian wool was required to produce the "feel" of the foreign goods they were struggling to compete against.

Therefore the most that can be said respecting the earlier years of these tables is that the price of wool, calculated on the value of the scoured pound, was higher in the United States than in London by from 30 per cent to 85 per cent from 1850 to 1857, or an average considerably in excess of the duty of 30 per cent which prevailed during those years—a fact explained by the limited knowledge and restricted use of foreign wool in this country, and the wholly insufficient domestic supply—a supply which prior to 1860 never exceeded 60,000,000 pounds per annum, according to the estimate of the Department of Agriculture.

As the colonial wool clip has increased with accelerating rapidity, and the immense product has been pushed into all the corners of the world, partially destroying the merino wool industry in France, Germany, and Spain, and becoming the standard of values not only for Europe, but the United States also, the London prices have fallen steadily, and the difference between these prices and those of the American clip has approached the point when it consists only of the duty on wool and the charges of transportation; and this difference is frequently less than the amount of duty and charges. That the clip of Australia increases so rapidly is evidence that in spite of declining values the business of wool growing must still continue to be profitable there.

The Australian wool grower has a climate particularly favorable for sheep raising; many of the "stations" have from 100,000 to 200,000 sheep, and we have heard of one concern owning over 500,000 sheep. Owing to the business methods and thorough system employed in putting up their wools, they can be shipped from Melbourne and sold in London at an expense of about one penny per pound—about the cost for freight on wool shipped from our far west to seaboard markets.

It is only possible to ascertain the relative cost of wool in the United States and England by reducing the wool to the scoured basis and measuring prices upon that basis.

The difference in the condition of Ohio fleece wool and Australian wool, as marketed, is so radical that any comparison of prices in the conditions marketed, means absolutely nothing, even as between wools almost identical in character for spinning purposes. Australian wools are skirted, while Ohio wools are sent to market as shorn from the sheep. Skirting removes the breech and other inferior portions of the fleece, enhancing the value of the remainder. Thus it happens that the shrinkage in the scouring of an unwashed Australian fleece is frequently less than the shrinkage of a washed Ohio fleece. The Ohio farmer who obtains the same nominal price for his wool that the corresponding Australian wool obtains in London, secures a price which is actually from six to ten cents higher, or by as much as the presence of skirtings may increase its shrinkage.

The condition of Ohio wools has been growing heavier of late years, correspondingly decreasing the yield when scoured, while the Australian wools have as steadily improved in condition. Port Philip fleece which formerly yielded about 40 per cent, now yields 45 per cent, while the yield of Ohio washed fleeces has been gradually decreasing. Formerly yielding 56 per cent, they now yield only about 45 per cent. Hence it happens that Ohio washed fleece is compared in this table with Australian wool in the grease.

The scoured value of Australian wool in London, as shown in column 10 of these tables, is not the result of a given percentage of shrinkage calculated upon the value of the greasy wool as given in either column 4 or column 5, but is a value determined by market quotations of

scoured wool, as recorded by Helmuth, Schwartze & Co. It may be taken as the equivalent London price of an American wool, the scoured value of which in Boston is given in column 2. This London value of the scoured pound varies not only with varied market conditions, but also with the condition of the wool.

The average shrinkage of all descriptions and grades of Australian wools sent to London is reckoned at about 58 per cent, but upon wools corresponding with Ohio fine it may be calculated at 55 per cent.

American purchases are confined to wools of the lightest shrinkage, on account of the duty, and these purchases will not average to shrink more than 50 to 53 per cent.

To determine the effect of the duty in enhancing the price of Ohio fine wool, as measured by the price of a like grade of Australasian wool in the London market, at the present time, a shrinkage of 55 per cent for each should be adopted in each case, as shown above. On this basis we have the following results for the year 1891:

Ohio fine washed fleece, costing 31¾ cents in 1891 and shrinking 55 per cent, averages to cost 70¾ cents per scoured pound.

Port Philip good average grease, costing in London in 1891, 20 cents, and also shrinking 55 per cent, averages to cost, in the United States, duty and charges paid, 72¼ cents, per scoured pound, as follows:

Wool	$0.20
Duty	.11
Charges	.0150
Cost	.3250

Or 72¼ cents per scoured pound.
Cost in London, 44½ cents per scoured pound.

The difference between 70¾ cents and 44½ cents, or 26¼ cents, is the amount by which the price of Ohio fine scoured wool is enhanced because of the duty and charges. This, on fine Ohio, shrinkage 55 per cent, is equivalent to 11$\frac{8}{10}$ cents in the washed condition.

As the price in London declines, the difference between the cost, scoured, of the imported Australian wool and Ohio washed fleece, lessens also.

Very respectfully,

MAUGER & AVERY.

Hon. NELSON W. ALDRICH,
Chairman Sub-committee on Tariff,
Committee on Finance, United States Senate.

TABLE A.—*Annual average prices of Ohio fine washed fleece, in Boston, and the same scoured; with the prices in London of several descriptions of competing fine foreign wools, 1850 to 1892.*

[This table was compiled by Messrs. Mauger & Avery, Boston, Mass. The quotations for foreign wools were furnished by Messrs. Helmuth, Schwartze & Co., London, England. Information in regard to the shrinkage of Ohio wools was furnished by Mr. Robert Middleton, of the Globe Woollen Co., Utica, N. Y., and Mr. Joseph E. Dole, of the Harris Woollen Co., Woonsocket, R. I., from their own records. The United States tariff on wools of merino blood was as follows: From 1850 to July 1, 1857, 30 per cent; from July 1, 1857 to April 1, 1861, 24 per cent; from April 1, 1861 to July 1, 1864, 9 cents per pound; from July 1, 1864, to March 1867, over 12 cents, 6 cents per pound; over 24 cents, 10 cents per pound and 10 per cent; over 32 cents, 12 cents per pound and 10 per cent; from March 1867 to August 1, 1872, 32 cents or less, 10 cents per pound and 11 per cent; over 32 cents, 12 cents per pound and 10 per cent; from August 1, 1872 to March 3, 1875, tariff of March 1867, reduced 10 per cent; from March 3, 1875 to July 1, 1883, tariff of March 1867; from July 1, 1883 to October 6, 1890, 30 cents or less, 10 cents per pound; over 30 cents, 12 cents per pound; from October 6, 1890, 11 cents per pound.]

Year.	Ohio fine washed fleece.	Ohio fine fleece, scoured.	Port Philip (Australia) average fleece, washed.	Port Philip good average grease.	Adelaide (Australia) average grease.	Cape of Good Hope average fleece.	Buenos Ayres average grease.	Australian good, scoured.	Australian average, scoured.	Cape of Good Hope average, scoured.	Buenos Ayres average, scoured.	Estimated annual production of Australian wool in pounds.
1850	$0.45½	$0.83½	$0.34	.....	$0.15	$0.26	.....	$0.54	$0.46	$0.40	.....	39,000,000
1851	.47	.85½	.34	.....	.15	.26½	.....	.54	.46	.42	.....	42,000,000
1852	.45	.81½	.39	.....	.18	.31	.....	.62	.56	.48	.....	43,000,000
1853	.58½	1.07	.40	.....	.19	.31½	.....	.66	.60	.50	.....	47,000,000
1854	.49½	.91½	.36	.....	.17½	.28	.....	.58	.52	.44	.....	48,000,000
1855	.46½	.85½	.39	.....	.18½	.32	.....	.62	.56	.50	.....	49,000,000
1856	.55½	1.04½	.46	.....	.22	.39	.....	.72	.66	.60	.....	52,000,000
1857	.53	1.02	.46	.....	.23	.38½	.....	.74	.68	.60	.....	49,000,000
1858	.45½	.82½	.45	.....	.22	.36	.....	.70	.64	.56	.....	51,000,000
1859	.59	1.09½	.47	.....	.23	.36	.....	.72	.66	.56	.....	54,000,000
1860	.54½	1.02½	.48	$0.30	.24	.37½	$0.19	.76	.68	.60	$0.62	60,000,000
1861	.43½	.82½	.44	.27	.21	.33½	.16½	.70	.60	.52	.56	70,000,000
1862	.50½	.93½	.44	.27	.21	.33	.16½	.70	.60	.52	.56	72,000,000
1863	.78½	1.51½	.44	.26½	.21½	.34	.15½	.70	.62	.54	.54	77,000,000
1864	.90½	1.77	.46	.28½	.22½	.35	.15½	.74	.64	.54	.51	99,000,000
1865	.83	1.66	.45	.27	.21½	.32	.15	.70	.62	.50	.50	110,000,000
1866	.67	1.31½	.47	.28	.23½	.33	.15½	.76	.68	.54	.51	115,000,000
1867	.57½	1.13½	.43	.24	.20	.28	.13½	.68	.60	.44	.46	133,000,000
1868	.48	.88½	.40	.22	.17½	.25½	.11½	.64	.52	.40	.39	156,000,000
1869	.49	.90½	.34	.19½	.15	.20	.09½	.54	.44	.34	.32	158,000,000
1870	.47½	.89½	.34	.19½	.15½	.22	.10½	.54	.46	.38	.34	175,000,000
1871	.55½	1.06½	.42	.25	.20½	.29½	.13½	.66	.58	.48	.45	183,000,000
1872	.72	1.56½	.52	.31	.25½	.35	.17½	.82	.74	.58	.59	185,000,000
1873	.57½	1.19½	.50	.30½	.23½	.31	.14½	.76	.68	.52	.50	192,000,000
1874	.55½	1.15½	.47	.29½	.23	.32	.15½	.74	.66	.54	.50	229,000,000
1875	.52½	1.04½	.44	.27	.21½	.30	.15½	.68	.60	.50	.53	248,000,000
1876	.44½	.87	.40½	.24½	.18½	.26	.13	.62	.54	.44	.44	267,000,000
1877	.47½	.91	.40½	.24½	.18½	.25	.12½	.64	.54	.42	.42	284,000,000
1878	.38½	.74½	.40	.24	.18½	.23½	.12½	.64	.54	.42	.42	278,000,000
1879	.36½	.71½	.37½	.23½	.17	.22½	.12½	.60	.52	.41	.42	288,000,000
1880	.49½	1.02½	.43	.27	.21½	.25½	.15½	.68	.60	.46	.51	308,000,000
1881	.43	.95½	.39	.24	.18½	.22½	.13½	.60	.53	.42	.46	332,000,000
1882	.42½	.90½	.39½	.25	.18	.23½	.13½	.60	.53	.42	.45	357,000,000
1883	.40½	.86	.38	.24½	.17	.22½	.13½	.59	.51	.40	.44	366,000,000
1884	.37	.80½	.36½	.23	.16½	.20½	.12½	.56	.48	.38	.41	408,000,000
1885	.32½	.71½	.33	.20	.13½	.18	.10	.48	.41	.33	.34	385,000,000
1886	.34	.74	.31	.19½	.13½	.17½	.10½	.47	.41	.32	.35	429,000,000
1887	.33	.73½	.31½	.20½	.14	.18	.11	.48	.42	.34	.37	418,000,000
1888	.30½	.68	.31½	.20½	.14	.17½	.11	.48	.42	.33	.36	471,000,000
1889	.33½	.73½	.35	.23	.16½	.20½	.12½	.54	.48	.38	.41	478,000,000
1890	.33	.73½	.32	.21½	.15	.19	.12	.50	.44	.36	.40½	511,000,000
1891	.31½	.70½	.29½	.20	.13½	.17½	.10½	.45	.40	.33	.36	592,000,000
1892 a	.28	.62½	.24	.16	.11	.15	.09	.37	.32	.27	.29½	635,000,000

a Quotations are for 4 months.

TABLE B.—*Prices of Ohio medium washed clothing wool, and the same scoured; with prices in England of Australian crossbred, Lincoln hogs, and Sussex fleeces, together with prices of carpet woools.*

[This table was compiled by Messrs. Mauger & Avery, Boston, Mass. The foreign prices were furnished by Mr. James L. Bowes, Liverpool, Eng., and have been converted to United States money on the basis of two cents to the penny. Ohio prices are averages for the year. Prices for territory medium are from Coats Brothers', Philadelphia, Pa., July circular. Foreign prices are for the close of each year. Lincoln hogs and Sussex fleeces are washed English wools. Australian crossbred and Sussex fleeces correspond very nearly to Ohio medium fleeces. There is no domestic wool quoted in any quantity, which corresponds to Lincoln hogs. The estimated shrinkage on Australian crossbred is 35 to 40 per cent; on Sussex fleeces it is 30 to 33 per cent. The United States tariff on English wools imported was as follows: 1850, 30 per cent; from 1851 to 1861, 24 per cent; from 1862 to 1864, 5 per cent; from 1864 to 1867, 12 cents per pound and 10 per cent; from 1867 to 1872, 12 cents per pound and 12 per cent; from 1872 to 1875, 10.8 cents per pound and 9 per cent; from 1875 to 1883, 12 cents per pound and 10 per cent; from 1883 to 1890, 10 cents per pound; from 1890, 12 cents per pound. The tariff on carpet wools was as follows: From 1850 to 1857, 30 per cent; from 1857 to 1861, if not over 20 cents in value, free; over 20 cents, 24 per cent; 1861 to 1864, less than 18 cents, 5 per cent; 18 to 24 cents, 3 cents per pound; over 24 cents, 9 cents per pound; from 1864 to 1867, not over 12 cents, 3 cents per pound; 12 to 24 cents, 6 cents per pound; 24 to 32 cents, 10 cents per pound and 10 per cent; over 32 cents, 12 cents per pound and 10 per cent; from 1867 to 1872, 12 cents or less 3 cents per pound; over 12 cents, 6 cents per pound; from 1872 to 1875, 10 per cent less than tariff of 1867; from 1875 to 1883, 12 cents or less, 3 cents per pound; over 12 cents, 6 cents per pound; from 1883 to 1890, 12 cents or less, 2½ cents per pound; over 12 cents, 5 cents per pound; from 1890, 13 cents or less, 32 per cent; over 13 cents, 50 per cent.]

Year.	Ohio, medium washed fleece.	Ohio, medium fleece, scoured.	Territory, medium.	Australian crossbred, unwashed.	Lincoln hogs.	Sussex fleeces.	Carpet wools.			Annual production of Great Britain in pounds.
							Scotch Highlands.	East India.	Donskoi, washed.	
1850	$0.38½	$0.57½	.....	.....	$0.27	$0.30	$0.09½	$0.19½	$0.17	.....
1851	.41½	.62	.....	.....	.27	.30	.09	.19	.16½	.....
1852	.38½	.56½	.....	.....	.30½	.37	.10½	.23	.18–.19½	.....
1853	.53¾	.80½	.....	.....	.33	.40½	.12½	.26	.20	.....
1854	.43	.65	.....	.....	.26	.26½	.09	.24	.16–.19	.....
1855	.37½	.56½	.....	.....	.29	.32½	.09½	.27	17	.....
1856	.45	.68½	.....	.....	.42½	.40	.13½	.30	.19	.....
1857	.46½	.72½	.....	.....	.32	.32	.10	.28	.15½	.....
1858	.36½	.56½	.....	.....	.41½	.41	.11½	.31	.17	.....
1859	.47	.71½	.....	.....	.43	.41½	.12	.32	.17½	.....
1860	.47½	.71	.....	.....	.44½	.38½	.12	.33½	.18	.....
1861	.38½	.58	.....	.....	.42	.35	.11½	.34	.18	.....
1862	.50½	.76½	.....	.....	.47	.41	.16	.35½	.22½	.....
1863	.75¼	1.18½	.....	.....	.52	.46	.18	.42	.24	.....
1864	.87½	1.39	.....	.....	.64	.49	.19	.36	.24	.....
1865	.82	1.28½	.....	.....	.58	.42	.18½	.40½	.24½	.....
1866	.63	.98½	.....	.....	.48	.38	.17	.40	.22½	.....
1867	.50¾	.79½	.....	.....	.34	.35	.10	.29	.17	.....
1868	.46	.70½	.....	.....	.41	.33½	.10½	.26	.18½	182,000,000
1869	.49	.74½	.....	.....	.39½	.29½	.11	.26	.17½	185,591,000
1870	.46½	.69½	.....	.....	.36	.27	.11	.26	.19	149,570,000
1871	.55	.82	.....	.....	.55	.44½	.21	.29½	.20	144,794,000
1872	.70½	1.10½	.....	.....	.56	.45½	.19	.41	.27	155,000,000
1873	.55½	.85½	.....	.....	.52	.40	.14	.39	.20	165,350,000
1874	.54½	.81½	.....	$0.34	.46	.38	.14	.33	.21	167,042,000
1875	.51¼	.73½	.....	.32	.42	.36	.15	.31	.22	161,795,000
1876	.44	.67½	.....	.28	.38	.36	.12	.33	.22	155,500,000
1877	.42½	.66½	.....	.27	.33	.35	.11	.26½	.19	152,000,000
1878	.40½	.63	.....	.26	.28	.30	.08½	.28	.15	151,700,000
1879	.37½	.57½	.....	.25	.31½	.32	.11	.31	.19	153,355,000
1880	.52½	.83½	.....	.32	.28	.33	.11	.27½	.21	148,722,000
1881	.45½	.72½	.....	.28	.26½	.31	.10	.29	.18½	138,574,000
1882	.45¼	.72	$0.30	.28	.21	.29	.09	.25	.17½	139,000,000
1883	.42	.67½	.25	.27½	.20	.29	.08½	.23	.16½	136,200,000
1884	.36½	.59	.22	.27	.21½	.26	.07½	.20½	.14½	132,410,000
1885	.32½	.53	.22	.25	.20½	.24	.08	.21	.14½	130,130,000
1886	.35½	.57	.26	.23½	.22	.27½	.09½	.23½	.17	135,544,000
1887	.37½	.61	.28	.25	.21½	.26	.09	.25	.15	135,000,000
1888	.34	.54½	.22	.24½	.21½	.26	.09	.21½	.15	135,000,000
1889	.37½	.61	.27	.28	.28	.28	.09½	.29	.19	152,000,000
1890	.36½	.59½	.24	.27	.20½	.24	.08½	.21½	.14½	157,000,000
1891	.36	.58	.24	.27	.18½	.24	.08	.20	.14	147,000,000

APPENDIX G.

REPORT OF MR. JOSHUA REECE, JR.

19 EAST 130TH STREET,
New York, October 15, 1892.

DEAR SIR: In agreement with a verbal understanding that was adopted by the sub-committee of the Senate Finance Committee June 6, 1891, at a meeting at the Fifth Avenue Hotel, and that was supplemented by the instructions communicated in your letters of June 11, 1891, the gathering and arranging of the prices for the various textile articles specified were begun and prosecuted with all diligence. As had been suggested to your committee at the outset, the securing of prices for nearly half a century was confronted with difficulties, such as very radical changes in the qualities and in the fabrics in the last twenty years, the polite declination of some parties to furnish the information desired, and that, of very many of the articles, the records of prices back of 1873 had been destroyed in the Boston conflagration of November 9, 1872. Prior to this date, however, your agent had collected and preserved the monthly prices of several of the articles enumerated by you, and such data proved invaluable in furthering the work in hand, and of the fifty articles named for as many as thirty-two of them the quarterly prices for varying periods (or for forty-five years and less) were handed to your statistician September 17 following.

For the remainder of the articles the securing of prices has been attended with greater difficulty, as fireproof vaults that have not been opened in ten and more years have been ransacked for invoice and sales books, their pages examined, and abstracts made. This has been tedious work, as it could be done only by those who were familiar with the books and the particular classes of goods required. Of some articles the collection of prices for other than seemingly short periods has been rendered impossible in consequence of the phenomenal improvement in the manufacturing of qualities and fabrics, as the result of improved machinery, the advance of operatives in technical knowledge, and other causes that have coöperated. Illustrations in this direction are most conspicuous in Riverside worsted suitings, Atlantic Mills cashmeres, all-wool scarlet shirts and drawers, and half hose, blankets, and other articles for short terms, and the greater excellence remarked in the fabrics of the mills named has been a general feature of the textile manufacturing interests.

In reviewing the work done your agent can not but express satisfaction at its completeness, and that in the publication of the figures that have been gathered, a record of leading fabrics and their values for a long period will be preserved for future guidance. At the same time the impression is better grounded that monthly or semi-monthly prices would have returned better results, of which feature only those conversant with the markets can form any estimate.

In conclusion, this transmission would be incomplete without proper acknowledgments being made to each and every one for the alertness with which they have responded and the courteous readiness that has been manifested in extending to your agent all the facilities at their commands. Moreover, the accuracy of the figures will be unquestioned in mentioning the following representative establishments, to whom our heartiest thanks are tendered for the prices furnished for the different classes of goods for which they are the selling agents, to wit:

Bliss, Fabyan & Co., Pepperell cottons, and Bates quilts.
John L. Bremer & Co., Pequot sheetings, and Stark drills.
Lawrence & Co., Pacific Mills dress goods.
Lawrence, Taylor & Co., Lonsdale and Hope cottons.
William Iselin & Co., scarlet all wool underwear.
B. B. & R. Knight, Fruit of the Loom cottons.
Faulkner, Page & Co., scarlet and blue mixed twilled flannels.
Parker, Wilder & Co., scarlet and blue mixed twilled flannels.
W. L. Strong & Co., white flannels.
A. D. Juilliard & Co., worsted suiting and cashmeres.
Catlin & Co., Putnam all wool cassimeres.
Dana, Tucker & Co., Lancaster staple ginghams.
Auchincloss Brothers, J. & P. Coats' six-cord spool cotton.
Joseph T. Low & Co., New York Mills bleached cottons.
John & James Dobson, blankets.
S. N. & C. Russell Mfg. Co., cotton warp cassimeres.

Very respectfully, your obedient servant,

JOSHUA REECE, JR.

Hon. NELSON W. ALDRICH,
Chairman Sub-committee on Tariff,
Committee on Finance, United States Senate.

APPENDIX H.

REPORT OF MR. EDWARD STANWOOD.

BOSTON, *September 8, 1892.*

DEAR SIR: I have from time to time, in forwarding to your committee the statements of prices of various classes of cotton goods, referred to the difficulties in procuring the same, and have also noted the circumstances which must be taken into account in estimating the relative value of the several statements. It may be well after the conclusion of the whole work to restate in general some of the points.

It was the intention of the committee, as communicated to me, to procure the quarterly wholesale cash prices of various standard classes of cotton goods, selecting as far as possible the makes the prices of which had been reported down to 1849 in a former Treasury report and adding to the same new classes of standard goods the manufacture of which had been introduced during the last half century.

In carrying out this scheme I was confronted at the outset by the circumstance that the great fire in Boston had destroyed the books both of manufacturers and of selling agents, so that a continuity of quarterly prices of many of the classes of goods formerly reported was out of the question. But while the collection is less complete than, but for this circumstance, it might have been, it is not believed that the omission of the prices of many classes of goods will lead to any statistical error, inasmuch as the former statements in reality duplicated many classes of goods which were so nearly alike that it was unnecessary to report all, and since the statements I have forwarded cover all the important classes of manufacture which have been established more than fifty years. The only other difficulties I encountered were caused by the indifference of manufacturers and selling agents. It would not be true to say that any of them were hostile. It was at the cost of not a little persuasion that some of those who had figures which would be useful for this inquiry were induced to allow their own clerks or myself to draw off those figures. In very few cases, it appears, are manufacturers in the habit of retaining a full history of their own operations so that it may be obtained even by themselves for their own use.

It may be said in general that the quarterly prices of cotton goods submitted need in each case to be considered in the light of the facts presented at the time those prices were transmitted to you. The effort was made to state those prices in net cash, but owing to the credit practice in the cotton-goods trade it was never possible to make the prices conform with absolute strictness to this rule, but the course of prices is well indicated because in general the statement is made in the same form for the same class of goods throughout the entire time for which the report is made.

Very truly yours,

EDWARD STANWOOD, *Secretary.*

Hon. NELSON W. ALDRICH.
Chairman Sub-committee on Tariff,
Committee on Finance, United States Senate.

APPENDIX I.

REPORT OF MR. HENRY BOWER.

MANUFACTURING CHEMISTS' ASSOCIATION
OF THE UNITED STATES,
Philadelphia, Pa., September 26, 1892.

DEAR SIR: Your favor of the 19th instant was duly received. The list of prices of drugs and chemicals from the year 1840 to 1891, made by Mr. Whitton Evens, chemical broker, No. 9 North Front street, Philadelphia, under my directions, was compiled from sources as follows: From lists contained in the Shipping List and New York Price Current, published at New York; in the Oil, Paint, and Drug Reporter, also published at New York. The following firms aided by permitting or giving extracts from their books of account:

Rosengarten & Sons, Philadelphia, manufacturing chemists.
George D. Wetherill & Co., Philadelphia, wholesale druggists.
Baltimore Chrome Works, Baltimore, Md., manufacturers bichrome.
Henry Bower & Son, Philadelphia, manufacturing chemists.
John T. Lewis & Bros. Co., Philadelphia, white lead, linseed oil.
Harrison Bros. & Co., Philadelphia, color and chemical manufacturers.
And other establishments.

The work naturally required a long time, embracing a period of four months. I can not say that any great difficulties were encountered in obtaining the information. The firms named—leading and representative houses of the industry—responded cheerfully to my request.

You may rest assured of the accuracy of this report.

Yours, truly,

HENRY BOWER,
Secretary of the Manufacturing Chemists' Association of the United States.

Hon. NELSON W. ALDRICH,
Chairman Sub-committee on Tariff,
Committee on Finance, United States Senate.

APPENDIX J.

PRICES OF MISCELLANEOUS ARTICLES.

Through the courtesy of correspondents of the committee, prices were furnished for England for three of the articles upon the list. These prices undoubtedly have a bearing upon the purposes of the committee, and should be published as a matter of record. There was no place in the tables of the report where they could properly be included, and they are therefore inserted at this point. It would lead us too far astray here to enter upon an analysis of the figures, but for the convenience of their study we have added a statement of relative prices.

Foreign prices of certain articles.

METALS AND IMPLEMENTS—ANVILS (PRICES IN ENGLAND).

[The prices were furnished by Mr. Clark Fisher, of Trenton, N. J. Prices are from the records of invoices in the New York custom house, and are supposed to represent current market prices in England.]

Date.	Price per pound.	Date.	Price per pound.	Date.	Price per pound.	Date.	Price per pound.
1846	$0.07	1858	$0.07 3/16	1870	$0.05 7/16	1882	$0.06 1/16
1847	.07	1859	.07 1/2	1871	.05 3/4	1883	.06 1/4
1848	.07	1860	.06 1/2	1872	.06	1884	.06 1/16
1849	.07	1861	.05 3/16	1873	.07 3/16	1885	.06
1850	.06 1/2	1862	.05	1874	.07 1/2	1886	.06
1851	.06 1/2	1863	.05	1875	.07 1/4	1887	.06
1852	.06 1/2	1864	.05 7/16	1876	.07 1/2	1888	.06
1853	.06 9/16	1865	.05 7/16	1877	.06 3/4	1889	.06
1854	.06 1/2	1866	.06	1878	.06 1/2	1890	.06
1855	.06 1/2	1867	.05 1/2	1879	.06 5/16	1891	.06
1856	.07 1/2	1868	.05 1/2	1880	.06 3/4		
1857	.07 1/2	1869	.05 1/2	1881	.06 3/4		

DRUGS AND CHEMICALS—OXIDE OF COBALT (PRICES IN ENGLAND).

[The prices were furnished by Messrs. Henry Wiggin & Co., of Birmingham, to Mr. Joseph Wharton. The prices are for the English market. The advance in 1888 is said to have been due to a combination in Europe formed to prevent the destructive competition of several previous years.]

Date.	Price per pound.	Date.	Price per pound.	Date.	Price per pound.	Date.	Price per pound.
July, 1841	$9.33 1/3	Apr., 1845	$7.40	Jan., 1849	$5.22 1/2	Oct., 1852	$3.32
Oct., 1841	9.33 1/3	July, 1845	6.40 1/2	Apr., 1849	5.22 1/2	Jan., 1853	3.55 1/2
Jan., 1842	8.07	Oct., 1845	6.40 1/2	July, 1849	5.22 1/2	Apr., 1853	3.55 1/2
Apr., 1842	8.07	Jan., 1846	6.24 1/2	Oct., 1849	4.74 1/2	July, 1853	3.55 1/2
July, 1842	7.86 1/2	Apr., 1846	5.92	Jan., 1850	4.16 1/2	Oct., 1853	3.55 1/2
Oct., 1842	7.86 1/2	July, 1846	5.92	Apr., 1850	4.16 1/2	Jan., 1854	3.32
Jan., 1843	7.40 1/2	Oct., 1846	5.92	July, 1850	3.59 1/2	Apr., 1854	3.23 1/2
Apr., 1843	7.40 1/2	Jan., 1847	5.92	Oct., 1850	3.35	July, 1854	3.23 1/2
July, 1843	7.40 1/2	Apr., 1847	5.92	Jan., 1851	3.32	Oct., 1854	3.00 1/2
Oct., 1843	7.40 1/2	July, 1847	5.92	Apr., 1851	3.32	Jan., 1855	3.00 1/2
Jan., 1844	7.58 1/2	Oct., 1847	5.92	July, 1851	3.08 1/2	Apr., 1855	3.00 1/2
Apr., 1844	7.40	Jan., 1848	5.92	Oct., 1851	3.08 1/2	July, 1855	3.00 1/2
July, 1844	7.66 1/2	Apr., 1848	5.92	Jan., 1852	3.32	Oct., 1855	3.00 1/2
Oct., 1844	7.66 1/2	July, 1848	5.92	Apr., 1852	3.32	Jan., 1856	3.01
Jan., 1845	7.40	Oct., 1848	5.22 1/2	July, 1852	3.32	Apr., 1856	3.01

DRUGS AND CHEMICALS—OXIDE OF COBALT (PRICES IN ENGLAND)—Concluded.

Date.	Price per pound.	Date.	Price per pound.	Date.	Price per pound.	Date.	Price per pound.
July, 1856	$2.85	July, 1865	$2.82½	July, 1874	$3.70	Apr., 1883	$2.06½
Oct., 1856	2.85	Oct., 1865	2.55½	Oct., 1874	3.70	July, 1883	2.06½
Jan., 1857	2.85	Jan., 1866	2.55½	Jan., 1875	3.70	Oct., 1883	2.06½
Apr., 1857	2.85	Apr., 1866	2.55½	Apr., 1875	3.70	Jan., 1884	2.06½
July, 1857	2.85	July, 1866	2.55½	July, 1875	3.70	Apr., 1884	2.06½
Oct., 1857	2.85	Oct., 1866	2.55½	Oct., 1875	3.70	July, 1884	1.94½
Jan., 1858	3.15½	Jan., 1867	2.73½	Jan., 1876	3.23½	Oct., 1884	1.94½
Apr., 1858	3.15½	Apr., 1867	2.54½	Apr., 1876	3.23½	Jan., 1885	1.82½
July, 1858	3.28½	July, 1867	2.19	July, 1876	3.23½	Apr., 1885	1.82½
Oct., 1858	3.28½	Oct., 1867	2.06½	Oct., 1876	3.06½	July, 1885	1.82½
Jan., 1859	3.37½	Jan., 1868	1.89	Jan., 1877	3.06½	Oct., 1885	1.82½
Apr., 1859	3.37½	Apr., 1868	1.85	Apr., 1877	3.28½	Jan., 1886	1.82½
July, 1859	3.37½	July, 1868	1.85	July, 1877	3.46½	Apr., 1886	1.82½
Oct., 1859	3.37½	Oct., 1868	1.85	Oct., 1877	3.46½	July, 1886	1.82½
Jan., 1860	3.37½	Jan., 1869	1.61½	Jan., 1878	3.06½	Oct., 1886	1.67½
Apr., 1860	3.37½	Apr., 1869	1.57½	Apr., 1878	3.23½	Jan., 1887	1.67½
July, 1860	3.19½	July, 1869	1.81	July, 1878	3.23½	Apr., 1887	1.58½
Oct., 1860	3.19½	Oct., 1869	1.81	Oct., 1878	3.06½	July, 1887	1.58½
Jan., 1861	3.19½	Jan., 1870	1.81	Jan., 1879	3.06½	Oct., 1887	1.58½
Apr., 1861	3.19½	Apr., 1870	1.81	Apr., 1879	2.89½	Jan., 1888	1.54
July, 1861	3.19½	July, 1870	1.81	July, 1879	2.89½	Apr., 1888	2.07½
Oct., 1861	3.19½	Oct., 1870	1.81	Oct., 1879	2.42½	July, 1888	2.07½
Jan., 1862	3.19½	Jan., 1871	1.81	Jan., 1880	2.31½	Oct., 1888	2.07½
Apr., 1862	3.10½	Apr., 1871	1.91½	Apr., 1880	2.31½	Jan., 1889	2.07½
July, 1862	3.10½	July, 1871	1.91½	July, 1880	2.31½	Apr., 1889	2.07½
Oct., 1862	3.10½	Oct., 1871	2.13	Oct., 1880	2.31½	July, 1889	2.07½
Jan., 1863	3.10½	Jan., 1872	2.34½	Jan., 1881	2.54½	Oct., 1889	2.07½
Apr., 1863	3.01	Apr., 1872	2.34½	Apr., 1881	2.54½	Jan., 1890	2.07½
July, 1863	3.01	July, 1872	2.85	July, 1881	2.54½	Apr., 1890	2.07½
Oct., 1863	3.01	Oct., 1872	3.06½	Oct., 1881	2.54½	July, 1890	2.07½
Jan., 1864	2.92	Jan., 1873	3.54½	Jan., 1882	2.31½	Oct., 1890	2.07½
Apr., 1864	2.92	Apr., 1873	4.72½	Apr., 1882	2.19	Jan., 1891	2.07½
July, 1864	2.92	July, 1873	4.72½	July, 1882	2.19	Apr., 1891	2.07½
Oct., 1864	2.92	Oct., 1873	4.72½	Oct., 1882	2.19	July, 1891	2.07½
Jan., 1865	2.82½	Jan., 1874	3.70	Jan., 1883	2.06½	Oct., 1891	2.07½
Apr., 1865	2.82½	Apr., 1874	3.70				

METALS AND IMPLEMENTS—NICKEL, METALLIC (PRICES IN ENGLAND).

[The prices were furnished by Messrs. Henry Wiggin & Co., of Birmingham, to Mr. Joseph Wharton. The prices are for the English market. The advance in 1873 was due to the adoption of nickel by Germany for use in its smaller coins. The sudden decline, which came a few years later, was due to the discovery of extensive deposits in New Caledonia.]

Date.	Price per pound.	Date.	Price per pound.	Date	Price per pound.	Date.	Price per pound.
Apr., 1840	$1.70½	July, 1847	$2.92	Oct., 1854	$1.70½	Jan., 1862	$1.09½
July, 1840	1.70½	Oct., 1847	2.67½	Jan., 1855	1.58½	Apr., 1862	1.09½
Oct., 1840	1.70½	Jan., 1848	2.43½	Apr., 1855	1.58½	July, 1862	1.09½
Jan., 1841	1.70½	Apr., 1848	1.94½	July, 1855	1.58½	Oct., 1862	1.09½
Apr., 1841	1.70½	July, 1848	1.94½	Oct., 1855	1.58½	Jan., 1863	1.09½
July, 1841	1.70½	Oct., 1848	1.94½	Jan., 1856	1.58½	Apr., 1863	1.09½
Oct., 1841	1.70½	Jan., 1849	1.94½	Apr., 1856	1.58½	July, 1863	1.15½
Jan., 1842	1.70½	Apr., 1849	1.94½	July, 1856	1.58½	Oct., 1863	1.15½
Apr., 1842	1.70½	July, 1849	1.94½	Oct., 1856	1.58½	Jan., 1864	1.15½
July, 1842	2.43½	Oct., 1849	1.94½	Jan., 1857	1.46	Apr., 1864	1.15½
Oct., 1842	2.43½	Jan., 1850	1.94½	Apr., 1857	1.46	July, 1864	1.15½
Jan., 1843	2.43½	Apr., 1850	1.94½	July, 1857	1.46	Oct., 1864	1.15½
Apr., 1843	2.43½	July, 1850	1.94½	Oct., 1857	1.46	Jan., 1865	1.09½
July, 1843	2.43½	Oct., 1850	1.94½	Jan., 1858	1.21½	Apr., 1865	1.09½
Oct., 1843	2.43½	Jan., 1851	1.94½	Apr., 1858	1.21½	July, 1865	1.09½
Jan., 1844	2.43½	Apr., 1851	1.94½	July, 1858	1.21½	Oct., 1865	1.09½
Apr., 1844	2.43½	July, 1851	1.94½	Oct., 1858	1.21½	Jan., 1866	1.09½
July, 1844	3.04½	Oct., 1851	1.94½	Jan., 1859	1.21½	Apr., 1866	1.09½
Oct., 1844	3.04½	Jan., 1852	1.94½	Apr., 1859	1.21½	July, 1866	1.09½
Jan., 1845	3.04½	Apr., 1852	1.94½	July, 1859	1.21½	Oct., 1866	1.09½
Apr., 1845	3.04½	July, 1852	1.94½	Oct., 1859	1.21½	Jan., 1867	1.09½
July, 1845	3.04½	Oct., 1852	1.94½	Jan., 1860	1.21½	Apr., 1867	1.09½
Oct., 1845	3.04½	Jan., 1853	1.70½	Apr., 1860	1.21½	July, 1867	1.09½
Jan., 1846	3.04½	Apr., 1853	1.70½	July, 1860	1.21½	Oct., 1867	1.09½
Apr., 1846	3.04½	July, 1853	1.70½	Oct., 1860	1.21½	Jan., 1868	1.09½
July, 1846	3.04½	Oct., 1853	1.70½	Jan., 1861	1.21½	Apr., 1868	1.09½
Oct., 1846	3.04½	Jan., 1854	1.70½	Apr., 1861	1.21½	July, 1868	1.09½
Jan., 1847	3.04½	Apr., 1854	1.70½	July, 1861	1.21½	Oct., 1868	1.09½
Apr., 1847	3.04½	July, 1854	1.70½	Oct. 1861	1.21½	Jan., 1869	1.09½

METALS AND IMPLEMENTS—NICKEL, METALLIC (PRICES IN ENGLAND)—Concluded.

Date.	Price per pound.	Date.	Price per pound.	Date.	Price per pound.	Date.	Price per pound.
Apr., 1869	$1.09½	Jan., 1875	$2.67½	Oct., 1880	$0.85½	July, 1886	$0.60½
July, 1869	1.09½	Apr., 1875	2.67½	Jan., 1881	.79	Oct., 1886	.60½
Oct., 1869	1.09½	July, 1875	2.67½	Apr., 1881	.79	Jan., 1887	.48½
Jan., 1870	1.09½	Oct., 1875	2.67½	July, 1881	.85½	Apr., 1887	.48½
Apr., 1870	1.09½	Jan., 1876	2.67½	Oct., 1881	.85½	July, 1887	.48½
July, 1870	1.09½	Apr., 1876	2.67½	Jan., 1882	.73	Oct., 1887	.48½
Oct., 1870	1.09½	July, 1876	2.31½	Apr., 1882	.73	Jan., 1888	.48½
Jan., 1871	1.09½	Oct., 1876	1.70½	July, 1882	.73	Apr., 1888	.48½
Apr., 1871	1.09½	Jan., 1877	1.21½	Oct., 1882	.73	July, 1888	.48½
July, 1871	1.09½	Apr., 1877	1.15½	Jan., 1883	.73	Oct., 1888	.48½
Oct., 1871	1.21½	July, 1877	1.09½	Apr., 1883	.73	Jan., 1889	.48½
Jan., 1872	1.21½	Oct., 1877	1.21½	July, 1883	.73	Apr., 1889	.48½
Apr., 1872	1.33½	Jan., 1878	.97½	Oct., 1883	.73	July, 1889	.48½
July, 1872	1.58½	Apr., 1878	.85½	Jan., 1884	.67	Oct., 1889	.48½
Oct., 1872	1.94½	July, 1878	.79	Apr., 1884	.67	Jan., 1890	.48½
Jan., 1873	2.19	Oct., 1878	.73	July, 1884	.60½	Apr., 1890	.48½
Apr., 1873	2.19	Jan., 1879	.67	Oct., 1884	.60½	July, 1890	.60½
July, 1873	3.89½	Apr., 1879	.67	Jan., 1885	.60½	Oct., 1890	.60½
Oct., 1873	2.67½	July, 1879	.60½	Apr., 1885	.60½	Jan., 1891	.48½
Jan., 1874	2.67½	Oct., 1879	.67	July, 1885	.60½	Apr., 1891	.48½
Apr., 1874	2.67½	Jan., 1880	.73	Oct., 1885	.60½	July, 1891	.48½
July, 1874	2.67½	Apr., 1880	.79	Jan., 1886	.60½	Oct., 1891	.48½
Oct., 1874	2.67½	July, 1880	.85½	Apr., 1886	.60½		

Relative foreign prices of certain articles.

Year.	Anvils.	Oxide of cobalt.	Nickel, metallic.	Year.	Anvils.	Oxide of cobalt.	Nickel, metallic.
1840	.....	.....	.....	1866	88.2	75.7	90.0
1841	.....	.....	140.0	1867	85.3	81.1	90.0
1842	.....	239.0	140.0	1868	80.9	56.0	90.0
1843	.....	219.2	200.0	1869	76.5	47.9	90.0
1844	.....	224.6	200.0	1870	83.8	53.6	90.0
1845	.....	219.2	250.1	1871	82.4	53.6	90.0
1846	102.9	184.9	250.1	1872	88.2	69.4	100.0
1847	102.9	175.3	250.1	1873	107.4	104.9	180.0
1848	102.9	175.3	200.0	1874	111.8	109.6	220.0
1849	102.9	154.7	160.0	1875	114.7	109.6	220.0
1850	95.6	123.3	160.0	1876	111.8	95.8	220.0
1851	95.6	98.3	160.0	1877	97.1	90.8	100.0
1852	95.6	98.3	160.0	1878	97.1	90.8	80.0
1853	101.5	105.4	140.0	1879	89.7	90.8	55.1
1854	100.0	98.3	140.0	1880	94.1	68.5	60.0
1855	100.0	89.0	130.1	1881	94.1	75.4	64.9
1856	110.3	89.1	130.1	1882	89.7	68.5	60.0
1857	106.6	84.4	120.0	1883	94.1	61.2	60.0
1858	107.4	93.4	100.0	1884	89.7	61.2	55.1
1859	105.9	100.0	100.0	1885	88.2	55.8	49.9
1860	100.0	100.0	100.0	1886	88.2	54.0	49.0
1861	77.9	94.6	100.0	1887	88.2	48.3	40.0
1862	73.5	91.6	90.0	1888	88.2	45.6	40.0
1863	73.5	91.9	90.0	1889	88.2	61.5	40.0
1864	83.8	86.5	94.9	1890	88.2	61.5	40.9
1865	83.8	83.7	90.0	1891	88.2	61.5	40.0

APPENDIX K.

REPORT UPON CHANGES IN RAILWAY TRANSPORTATION RATES ON FREIGHT TRAFFIC THROUGHOUT THE UNITED STATES, 1852 TO 1893.

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REPORT

UPON

CHANGES IN RAILWAY TRANSPORTATION RATES ON FREIGHT TRAFFIC THROUGHOUT THE UNITED STATES, 1852 TO 1893.

Hon. NELSON W. ALDRICH,
Chairman Subcommittee on Tariff (Finance Committee),
United States Senate, Washington, D. C.:

DEAR SIR: I have the honor to present herewith a report upon the investigation of changes in freight rates, in compliance with the request to place your committee in possession of data showing to what extent railroad freight charges throughout the United States have changed since 1850.

An investigation of this character involves a wider range of inquiry than has probably previously been undertaken. The information sought by the committee is not known to have heretofore been collated to the extent now desired, either by the railroads or any of the numerous agencies from which statistics of the railways frequently emanate. The successful conclusion of the investigation, it will therefore be seen, has been largely if not wholly dependent upon the friendly coöperation of officials of the railways, from whom the schedules and records for the earlier dates were in the first place to be obtained.

It is therefore proper to express appreciation of the courtesies uniformly extended by these officials. Wherever the records had been preserved and were thought of service every facility was offered for their inspection, and valuable assistance rendered in the work of analyzing the rate schedules, many of which had become obsolete years before the present incumbents in office had entered the service.

From a preliminary examination of the field from which most of the records and material would have to be collected it was ascertained that it would be quite impossible to begin the investigation with a date as early as 1850. From personal inquiry at the principal offices of the railrords it was learned that in few cases were the rate schedules available for any considerable number of years. With some, a system had been adopted for the preservation of such records, but various occurrences, such as fire, bursting of steam pipes, removals, changes in official personnel of the roads, had caused their destruction or misplacement, and as no pressing necessity had arisen, their restoration had not been attempted. With other companies very complete records were found, but only in one or two cases for years prior to 1864. In a majority of instances rates prior to the year named were only to be obtained from

the accounting records of the railroads, most of which have taken their place in the archives of the companies and could not now be reproduced without enormous labor to the roads, by whom the work would necessarily have to be performed. From 1864 to 1866 schedules were to be had in fragmentary form only and were not found to contain material sufficiently reliable to be of service.

In view of this condition it was seen that if the investigation was to be concluded within a reasonable period no extended research for material could be made for years prior to 1867, as this would require much time without the assurance of results to justify the labor.

The determination of the amount of data which would satisfactorily meet the requirements of a report of this character has not been the least of its troublesome features. In the several sections of the country are numerous railroads operating under the same general conditions and charging similar rates. To include the rates of all of such roads would result in much repetition and enlarge the report unnecessarily. The plan pursued has been to collect rates for as long a period as possible, for both competitive and local traffic of such rail and water carriers as will best represent the tendency of the changes in different sections. Articles of commercial prominence, such as grain, dressed beef, cotton, oil, coal, lumber, etc., are provided for by separate tables showing the rates between points where these articles comprise a large proportion of the traffic transported by the rail and water carriers. Territorial divisions of traffic associations and prominence of places have also largely guided in the selection of the rates. These, together with the somewhat elaborate exhibit of the operations and changes in freight classifications, as well as various data relating to mileage rates, it is believed will fully meet the purpose for which the investigation was undertaken.

Apropos of the general subject there have been included various data arranged to show the increase in tonnage movement by the carriers in different parts of the country. From such statements some idea may be formed of the revenue involved by the rate reductions and the consequent benefit to the shipping public.

The form of presentation chosen for the report will divide the data in four general headings, namely:

1. Development of Freight Classifications.
2. Changes in Competitive Rates.
3. Miscellaneous Data relating to Mileage Rates and Tonnage Movement.
4. Changes in Local Rates.

The numerous tables given are arranged to simplify the work of comparison, and are accompanied by such analysis and explanation as has been deemed necessary. From all of the forms of comparison presented it is clearly demonstrated that there has been a constant downward tendency in freight charges in all sections of the country.

Very respectfully submitted,

C. C. McCain.

THE DEVELOPMENT OF FREIGHT CLASSIFICATIONS.

The freight traffic of the railways of the United States is carried under two general classes of schedules, commonly known as Class Tariffs and Commodity Tariffs. The latter has reference to schedules applicable to such articles as grain, lumber, coal, live-stock, dressed beef, fertilizers, oil, etc., transported between sections of the country where these articles have attained a commercial and shipping importance which has made necessary specific rules for their transportation differing from those covering classified traffic, as well as a somewhat lower scale of rates than is applied to the latter.

Class tariffs are arranged to show the rates of the respective classes contained in the freight classifications. In the latter are found the great majority of articles carried by the railways, classified in accordance with the various elements that properly enter into the determination of freight charges; under these are also found the commodities above mentioned, and although exceptionally treated in certain sections as to rates, they are all amenable to some rule of the classification. The rate-making foundation for all commodities is seen to lie largely in the freight classification.

With the development of the railroad business of the country has followed the enlargment and extension of freight classifications. These publications are now current guides to the shipping public and have an enormous circulation. They are arranged in an enlarged and convenient manner, wherein may be found all commodities of commerce, described in every probable form of shipment, with a rate reference for each description, together with the rules and regulations under which each will be accepted for carriage. An effort will be here made to present the extent of the changes which have taken place in the principal classifications, and the advantages to the public resulting from the advancement in this branch of the railroad service.

Concerning the basis of constructing classifications, it may be said to have been early discovered that the charges for transportation of different articles of freight could not be apportioned among such articles with regard alone to the cost of carriage. This basis of determining the charges, it was found, would confine to narrow limits the movement of different articles whose bulk or weight was large in comparison to their value, while heavier articles with less bulk would be made to pay disproportionately low rates. "Under the system of apportioning the charges strictly to the cost some kinds of commerce which have been very useful to the country, and have a tendency to bring different sections into more intimate business and social relations, could never have amounted to any considerable magnitude, and in some cases could not have existed at all, for the simple reason that the value at the place of delivery would not equal the purchase price with the transportation added. The traffic would thus be precluded, because the charge for carriage would be greater than it could bear. On the other hand, the rates for the carriage of articles which, with small bulk or weight, concentrated great value would, on that system of making them, be absurdly low when compared to the value of the articles, and perhaps not

less so when the comparison was with the value of the service in transporting them."

Accordingly it was found not to be unjust to distribute the entire cost of service among all articles carried, on a basis that gave greater consideration to the relative value of the service than to the cost. Such a method would be most beneficial to the country; it would enlarge commerce and extend communication, and would be better for the railroads because of the increased traffic which would be brought to them.

The value of the article, carried under this system, would be the most important element in determining what freight charge it should bear. Other considerations, however, equally important, must not be overlooked when the freight classification is to be made. The classifications as now constructed have for their foundation the following elements:

The competitive element, or the rates made necessary by competition.

The volume of the business; that is, the tonnage movement.

The direction in which the freight moves; that is, whether it moves in the direction in which most of the freight is transported or in the reverse direction in which empty cars are running.

The value of the article.

The bulk and weight.

The degree of risk attending transportation.

The facilities required for particular or special shipments.

The conditions attending transportation, such as furnishing special equipment, as in the case of private dressed-beef cars or cars specially adapted for freight of a perishable nature, or cars of large size for freight of extraordinary bulk.

Another condition which has also received consideration is the analogy which the new articles to be classified bear to other articles found in the classification.

The conditions under which railroad companies can afford to transport traffic have a large influence in determining the classification.

These are the general rules under which classifications are constructed, and while to a large extent controlling, the classifications are, notwithstanding, in a great measure a series of compromises, the participants of which are not alone the railroads, but also the shippers and representatives of business interests throughout the country, the latter being afforded ample opportunity to join with the railroads in the discussion as to the proper classification of articles of shipment affecting their interests.

While the pressure for reductions is very strong from certain localities, concessions are not now so readily granted, as the territory covered by the freight classifications is so large that great care in the assignment of articles to particular classes must be taken in order to avoid working an injury to any particular section. The commercial and transportation interests are regarded as identical, and the welfare of the whole territory and all interests affected must be considered. It is, however, occasionally observed that particular localities are to some extent preferentially served by the action of carriers who resist proposed changes in the classification for the reason that in their opinion they will operate to the prejudice of certain patrons. Thus exceptions to the classification are created by a road continuing to carry some article at one class when in the opinion of a majority of the roads using the classification the articles could well stand a higher rating. At this time fewer articles are rated independently of the classification than ever before in the history of the railroads.

The tendency of the character of classification is constantly toward uniformity, and this frequently in the face of strong opposition made by different carriers who have found it difficult to repel the pressure for special changes sought by patrons in the districts which they serve, and especially in the face of local influences which would seemingly benefit both the road and the shipper.

At this time there are practically but three freight classifications in use throughout the United States, namely, the Official classification, the Southern Railway and Steamship Association classification, and the Western classification. The application of these is as follows:

First. The Official classification is used almost exclusively throughout the territory east of Lake Michigan, Chicago, and the Mississippi River, and north of the Ohio and Potomac Rivers, to the Atlantic seaboard.

Second. The Southern Railway and Steamship Association classification is applied generally by roads south of the Ohio and east of the Mississippi River to the seaboard.

Third. The Western classification governs in the territory north and west of Chicago, west of a line drawn from Chicago to St. Louis, and west of the Mississippi River, St. Louis to New Orleans.

In each of the three divisions of territory described exceptions to these particular classifications are made to some extent by State commissions, and by individual roads for State or local traffic. Traffic carried between different points in the sections above described is usually taken at either one or the other of these leading classifications. For example, the classified traffic from the Atlantic seaboard to the Pacific coast is carried under the Western classification; traffic from Chicago to Atlanta, Ga., is carried under the Southern Railway and Steamship Association classification.

The territory throughout which the Official classification is shown to govern is the largest both in point of tonnage and communities served. At the date of the passage of the act to regulate commerce, one hundred and thirty-one railroad companies within the territory defined above as governed by the Official classification each had a separate classification. In addition to those classifications which had grown up mainly to foster local conditions, and were thought to be beneficial to the particular roads and shippers, there were five associations of railroad companies, each having a classification. These classifications were as follows:

First. The local classification of each railroad company.

Second. The through west-bound classification, generally known as the "Trunk line west-bound classification," applying upon through traffic originating at the seaboard cities and points east of the western termini of the trunk lines, and destined to Buffalo, Erie, Pittsburg, Parkersburg, etc., and to a number of competitive points, trade centers, or railroad junctions beyond.

Third. The East-bound classification, which alone applied to east-bound traffic originating in the territory east of Chicago and the Mississippi River, west of the western termini of the trunk lines and north of the Ohio River and destined to the western termini of the trunk lines and points east thereof.

Fourth. Traffic between competitive interior points in the Middle States, namely, New York, Pennsylvania, New Jersey, Delaware, Maryland, Virginia, and West Virginia, and between the several trunk lines and connecting roads was governed by the Joint Merchandise classification, which also applied to the local traffic on certain roads.

Fifth. The Middle and Western States classification applied to traffic between competitive interior points west of the western termini of the trunk lines east of the Mississippi River and north of the Ohio River.

When it became certain that the interstate-commerce act would become a law, early in 1887, the railroad companies decided at a meeting held for the purpose that it would be necessary to create and if possible adhere to a uniform classification. At this meeting there was appointed a special committee, composed of representatives of ten or twelve different roads, whose duty it was to go over the various classifications then in force and unite them into one classification, and the result of the work of this committee was the formation of Official classification No. 1.

Under the former arrangement the through or larger portion of the classified traffic was carried in two classifications; the West-bound classification was applied to traffic moving westward while an entirely separate classification was applied to traffic moving eastward. These two classifications, as well as the rates of the respective classes, were entirely dissimilar; the latter made provision for twelve or thirteen classes which embraced the heavier or bulk freight carried mainly in carload quantities from the western centers to the seaboard, while the former provided almost exclusively for package freight, usually transported in small or less than carload shipments, the rules and regulations applicable to each classification being in a few instances similar.

The conditions and the requirements upon which the present classification is based are of an entirely different character, as the new issue governs all traffic, through and local, between all stations of the roads within the territory described.

It may be interesting to learn the methods under which an article may receive its place in the classification. This will be here briefly explained for the Official classification, which is applied exclusively by carriers covering more tonnage than any of the other classifications in use.

The Official classification committee is composed of twelve general and assistant general freight agents, representing twelve of the principal lines in the territory using that classification. While the twelve men referred to are the official representatives of only twelve railroads the Official classification governs and is used by one hundred and fifty different railroads the total mileage of which is 65,000 miles. Over 50 per cent of the total tonnage of all roads in the United States is carried under the Official classification.

This classification committee was created for the purpose of defining the classes under which freight shall be transported by the various lines within the territory above described.

What is known as the "through" business of the Trunk Line Association and the Central Traffic Association is arranged for by a joint committee composed of members of the two associations named, and this joint committee appoints the classification committee, which latter committee has a permanent chairman. All applications bearing upon changes or additions in the classification may be submitted in writing at any time, either by the railroads or shippers, to the chairman of the classification committee, together with the various reasons in support of the application for such changes. The chairman acknowledges the receipt of every such application, following which an investigation is made as to the value, bulk, and various other features relating to the article for which a change is sought and which are usually considered when making a classification.

Upon the conclusion of the investigation the chairman renders a report to the classification committee for its consideration and action, with a recommendation for or against the granting of the application. The chairman may make temporary rulings regarding the classification of any article, but the final classification of all articles is only obtained by vote of the roads in joint committee.

Official classification No. 1 was issued April 1, 1887, and may be said to have been largely experimental, as it was hardly to be expected that the commerce of so large an area could at once be made to conform to the new conditions resulting from the consolidation of the widely different classifications formerly in use. Protests and applications for changes were at once received from shippers, as well as from many of the railroads, and a revision of the first issue was almost immediately begun, resulting in the publication of Official classification No. 2, on July 15, 1887. Applications from various interested parties, committees of shippers, and the railroads, were constantly before the classification committee, the greater portion of which received favorable consideration. The consequent revisions in the classifications have necessitated frequent issues of this publication, the last being No. 11 of January 2, 1893.

It is proposed to show by comparative statements what changes have taken place in the classification of many of the important articles of shipment resulting from a consolidation of different classifications as well as from direct reductions in the existing classifications, together with the resulting changes in the rates. Data for this purpose are given to some extent for each of the leading classifiacations now in use. The separate tables are provided with notes of explanation from which it will be possible to determine to what extent lower rates are due to changes in the classification alone.

The first of these tables is arranged to show for a large number of articles the classification and rates under the three important classifications employed between the Mississippi River and the seaboard prior to 1887, in comparison with the consolidated or Official classification as now governing throughout this territory. Changes in the rates under these comparisons result from three causes: First, a reduction in the classification; second, a reduction in the rate; third, the assignment of a carload classification to articles which were formerly provided for by a less than carload rate only and were charged the same rate when in carload quantities.

The first comparison made is that of the Joint Merchandise classification, which prior to 1887 applied between interior points in the Middle States. The points selected for the comparison are Philadelphia, Pa., to Elmira, N. Y. The present rates between these points are shown to be somewhat lower than in 1886, and the Official classification is now applied, which is on a very much lower scale. The table is arranged to show the class and rate under which articles were taken in 1886 compared with the class and rate now charged.

The effect of the change in the charge to the public resulting from the adoption of the new Official classification and the lowering of the rates in this territory is illustrated by the commodity of glassware N. O. S. (not otherwise specified). Under the Joint Merchandise classification glassware N. O. S., L. C. L. (less than car loads) was first class, rate 40 cents per 100 pounds. The same rate applied to shipments of carload quantities. Under the present Official classification glassware is classed as second class, rate 30 cents per 100 pounds; in less than carloads, and when in carloads, it is third class, rate 25 cents

per 100 pounds. If there had been no change in the rate the lowering of the classification would have reduced the rate from first class, 40 cents, to second class, 32 cents; but the combined result of the lower classification and the lower rate produces a reduction of 10 cents per 100 pounds for quantities less than carloads, and 15 cents per 100 pounds for carload shipments.

The second comparison is that of the Middle and Western States classification, applying from Buffalo, Pittsburg, etc., to the Mississippi River, with the present Official, which embraces the same territory. The points and rates chosen for this comparison are those from Buffalo to East St. Louis; the rates of 1886 are given and those of 1893. There has been a material reduction in these rates, and a majority of the articles under the Official are found in lower classes than under the former or Middle and Western States classification. The combined results of these changes show important reductions in the charges to the public.

The third comparison is that of the present Official, which applies in both directions between New York and Chicago with the two former classifications as applied westward and eastward between the same points. In 1886 the rates between these points were on a distinct basis as between eastward and westward traffic, the eastward rates being considerably higher than those applied to westward business.

The eastward-bound traffic was divided into thirteen classes. By the adoption of the Official classification in 1887 the traffic was confined to six classes, and the rates in both directions were made alike. This effected very large reductions in the rates on traffic moving eastward formerly taken in the higher classes. The effect of this consolidation is illustrated by the article of liquid bluing, in glass. Less than carload shipments moving eastward, Chicago to New York, are now classified as second class, at a rate of 65 cents per 100 pounds, whereas formerly they were classified as second class at a rate of 85 cents per 100 pounds. Shipments in the same quantity moving westward were classified as first class with a rate of 75 cents, and are now taken at second class with a rate of 65 cents per 100 pounds. The same article in carload quantities prior to 1887 was carried from Chicago to New York at fourth class, 60 cents, and from New York to Chicago first class, 75 cents. At the present time carload shipments in both directions are taken at 30 cents per 100 pounds.

These tables should be studied carefully, as it will be seen, from the points for which comparisons are given, important sections of the country are represented, throughout which an enormous traffic is annually carried by the railroads. Reductions in the rates will appear for most of the articles given. In a few cases the rates for the less than carload shipments have been advanced, but it is noticed that in all of such instances reductions have been made on the same articles when carried in carload quantities.

COMPARISON OF CLASSIFICATION AND RATES.

TABLE 1—CLASSIFICATION AND RATES CHARGED ON IMPORTANT COMMODITIES BETWEEN PRINCIPAL POINTS UNDER THE SEVERAL FREIGHT CLASSIFICATIONS FORMERLY IN EFFECT AND WHICH HAVE BEEN MERGED WITH THE OFFICIAL CLASSIFICATION, AS COMPARED WITH THE CLASSIFICATION AND RATES CHARGED UNDER OFFICIAL CLASSIFICATION No. 11.

The names of the former classifications and points between which rates are stated are as follows, viz:

	Classes (Rates in cents per 100 pounds.)														
	1	2	3	4	5	6	A	B	C						
Philadelphia, Pa., to Elmira, N. Y.—Joint Merchandise classification, 1886	40	32	23	18			15	14½	14						
Official classification No. 11, 1893	35	30	25	18	15	13									
	1	2	3	4	5	6									
Buffalo, N. Y., to East St. Louis, Ill.—Middle and Western States classification, 1886	65	50	38	26	21	18									
Official classification No. 11, 1893	53½	47	34½	25	22	18									
	1	2	3	4	5	6	7	8	9	10	11	12	13	Special.	
Between New York, N. Y., and Chicago, Ill.—West-Bound Trunk-Line classification, 1886	75	65	45	35										25	
East-Bound classification, 1886	100	85	70	60	50	45	40	35	30	25	25	20	20		
Official classification No. 11, 1893	75	65	50	35	30	25									

Commodities.	Joint Merchandise compared with Official No. 11. Between Philadelphia, Pa., and Elmira, N. Y.						Middle and Western States compared with Official No. 11. From Buffalo, N. Y., to East St. Louis, Ill.								East Bound and West Bound compared with Official No. 11. Between New York, N. Y., and Chicago, Ill.							
	Less than carloads.		Carloads.				Less than carloads.		Carloads.				Less than carloads.				Carloads.					
	Class.		Class.		Rate.		Class.		Class.		Rate.		Class.				Class.				Rate.	
	Joint Merchandise, 1886.	Official No. 11, 1893.	Joint Merchandise, 1886.	Official No. 11, 1893.	Joint Merchandise, 1886.	Official No. 11, 1893.	Md. and W'est. States, 1886.	Official No. 11, 1893.	Md. and W'est. States, 1886.	Official No. 11, 1893.	Md. and W'est. States, 1886.	Official No. 11, 1893.	East Bound, 1886.	West Bound, 1886.	Official No. 11, 1893.		East Bound, 1886.	West Bound, 1886.	Official No. 11, 1893.		East Bound, 1886.	West Bound, 1886.	Official No. 11, 1893.
Acid, in iron drums, O. B.	3	4	3	5	23	15	4	4	4	5	25	25	4	3	4		2	3	4		85	45	30
Ale, in wood	3	4	3	5	18	15	3	3	3	5	34½	34½	3	3	3		3	4	4		35	35	30
Alum, in barrels or casks	4	4	4	5	18	15	4	4	4	5	25	25	4	4	4		3	4	4		70	35	30
Ammonia, aqua, in iron drums	3	4	3	5	18	15	4	4	4	5	25	25	4	4	4		3	4	4		60	45	30
Anchors	4	4	4	5	18	15	4	4	4	5	26	26	4	4	4		3	4	4		55	35	30
Apples, green, in barrels	3	3	3	4	23	15	3	3	3	5	34½	34½	3	3	3		3	4	4		85	45	30
Apples, dried, in boxes	3	3	3	5	23	15	3	3	3	5	34½	34½	3	3	3		3	4	4		85	45	30
Argols, in barrels or casks	4	4	4	5	18	15	4	4	4	5	25	25	4	4	4		3	4	4		70	45	30
Arsenic, crude, in barrels or kegs	3	4	3	4	18	15	3	4	3	4	38	47	3	3	3		3	4	4		65	35	30
Asphaltum, in barrels or casks	4	4	4	4	18	18	4	4	4	4	26	25	4	4	4		3	4	4		65	35	30
Axes, boxed	2	4	2	4	18	13	4	4	4	4	26	25	4	4	4		3	4	4		65	35	30
Axle grease, in barrels or boxes	4	4	4	5	18	15	4	4	4	5	26	25	4	4	4		3	4	4		65	35	30
Axle grease, in buckets or cans	4	4	4	5	18	15	4	4	4	5	26	25	4	4	4		3	4	4		65	35	30
Rabbit metal, in barrels or casks		4		5	18	15		4		5	25	25		4	4		3	4	4		65	35	30
Bacon, boxed	3	4	3	4	18	15	3	4	3	4	26	25	3	3	3		3	4	4		65	35	30
Bags or bagging, burlaps or gunny, in bales	4	4	4	4	18	15	4	4	4	4	26	25	4	4	4		3	4	4		65	35	30
Bags, paper	2	3	2	4	18	15	3	4	3	4	38	34½	3	3	3		3	4	4		65	35	30
Baking-powder	3	4	3	5	23	18	4	4	4	5	50	34½	3	3	3		3	4	4		65	35	30
Barb wire	4	4	4	5	18	15	4	4	4	5	26	25	3	3	3		3	4	4		65	35	30
Bark extract, tanner's, in barrels or casks	4	4	4	5	18	15	4	4	4	5	38	34½	3	3	3		3	4	4		65	35	30
Barley, pearl, in barrels	2	5	2	5	15	15	3	5	3	5	34	22	3	3	3		3	4	4		65	35	30
Barrels, beer, empty	4	4	4	5	14½	15	4	4	4	5	26	34½	3	3	3		3	4	4		65	35	30
Barrels, flour	3	4	3	5	18	15	4	4	4	5	38	34½	3	3	3		3	4	4		65	35	30
Battery, galvanic	2	4	2	4	18	15	4	4	4	4	38	34½	3	3	3		3	4	4		65	35	30
Beans, dried, in bags or barrels	3	4	3	5	23	18	4	4	4	5	50	34½	3	3	3		3	4	4		65	35	30
Beer, ale, wire, reiled, in barrels or boxes	3	4	3	5	23	18	4	4	4	5	38	34½	3	3	3		3	4	4		65	35	30
Beer, porter, wire, reiled, in barrels or boxes	3	4	3	5	23	18	4	4	4	5	38	34½	3	3	3		3	4	4		65	35	30
Beeswax, rubber, or canvas	3	4	3	4	18	15	4	4	4	4	26	25	3	3	3		3	4	4		65	35	30
Beeswax, tanners', for harvesters, in bales	4	4	4	5	18	15	4	4	4	5	26	25	4	4	4		3	4	4		65	35	30
Beeswax, tanners', for harvesters, in boxes	3	4	3	5	18	15	4	4	4	5	26	25	4	4	4		3	4	4		65	35	30
Beeswax, tanners', for harvesters, in bales	3	4	3	5	23	18	4	4	4	5	26	25	4	4	4		3	4	4		65	35	30
Beeswax, tanners', for harvesters, in boxes	3	4	3	5	23	18	4	4	4	5	26	25	4	4	4		3	4	4		65	35	30
Beeswax (not otherwise specified), in bales	3	4	3	5	23	18	4	4	4	5	26	25	4	4	4		3	4	4		65	35	30

Blankets, shoddy, pressed in bales	1	2	40	30	1	2	40	30	1	2	65	47	1	2	65	47	1	1	2	100	75	65	3	1	2	70	75	65									
Bleaching-powder	4	4	18	18	B	6	14½	13	4	4	26	25	5	6	21	18	6	(*)	4	45	25	35	6	(*)	6	45	25	35									
Bluing, liquid, in barrels	2	3	32	25	2	4	32	18	2	3	50	34½	2	4	50	25	2	1	3	85	75	50	4	1	4	60	75	30									
Bluing, liquid, in glass	1	2	40	30	1	4	40	18	2	2	50	47	2	4	50	25	2	1	3	85	75	65	4	1	4	60	75	30									
Boiler fines, iron	3	4	23	18	A	5	15	15	4	4	26	25	5	5	21	22	4	3	4	60	45	35	6	3	5	45	45	35									
Bolts, iron, in boxes	4	4	18	18	A	5	15	15	4	4	26	25	5	5	21	22	10	3	4	25	45	35	10	3	5	25	45	35									
Bolts, iron, in kegs	4	4	18	18	A	5	15	15	4	4	26	25	5	5	21	22	10	4	4	25	35	35	10	4	5	25	35	30									
Bonedust	4	4	18	18	C	6	14	13	4	4	26	25	6	6	18	18	6	4	4	45	35	35	6	4	6	45	35	25									
Books, in boxes	1	1	40	35	1	2	40	30	1	1	65	53½	1	2	65	47	2	1	1	85	75	75	3	1	2	70	75	65									
Boots and shoes, boxed	1	1	40	35	1	1	40	35	1	1	65	53½	1	1	65	53½	1	1	1	100	75	75	1	1	1	100	75	75									
Borax, in barrels	4	3	18	25	4	4	18	18	3	3	38	34½	3	4	38	25	2	4	3	85	35	50	6	4	4	45	35	30									
Bottles, O. R. B., in boxes, or barrels	3	2	3	30	4	5	18	15	3	2	38	34½	5	5	21	22	3	3	3	70	45	65	6	4	5	45	35	30									
Boxes, paper	D 1	3 t 1	80	105	D 1	3 t 1	80	105	3 t 1	3 t 1	195	160½	3 t 1	3 t 1	195	160½	3 t 1	4 t 1	3 t 1	300	300	225	9	4 t 1	3 t 1	300	300	225									
Boxes, paper, nested	D 1	D 1	80	70	D 1	D 1	80	70	3 t 1	D	195	160½	3 t 1	D 1	195	107	3 t 1	2 t 1	D 1	300	150	150	9	2 t 1	D 1	300	150	150									
Brass, sheet	2	2	32	30	2	2	32	30	2	2	50	47	2	2	50	47	2	2	2	85	60	65	2	2	2	85	60	65									
Brass fittings, boxed	3	3	32	25	3	3	32	25	3	3	38	34½	3	3	38	34½	2	2	3	85	60	50	2	2	3	85	60	50									
Brass, scrap, in barrels or casks	4	3	18	25	4	4	18	18	4	3	26	25	4	4	28	25	4	3	3	60	45	50	8	3	4	35	45	35									
Brick, common	4	5	18	15	C	6	14	13	4	5	26	25	6	6	18	18	6	4	5	45	35	30	10	4	6	25	35	20									
Brooms, in boxes or crates	1	2	40	30	1	2	40	30	2	2	50	47	2	2	50	47	2	1	2	85	75	65	6	1	2	45	75	65									
Brimstone, in barrels or hogsheads	4	4	18	18	4	6	18	13	4	4	26	25	4	6	26	18	6	4	4	45	35	35	6	4	6	45	35	20									
Cabbages, in barrels	4	3	18	25	A	3	15	25	4	3	26	34½	5	3	21	34½	3	3	3	70	45	50	3	3	3	70	45	55									
Cabbages, in crates	4	4	18	18	A	4	15	18	4	4	26	25	5	4	21	25	6	3	4	45	45	35	6	3	4	45	45	35									
Cabbages	....	4	....	18	A	5	15	15	....	4	....	25	....	5	....	22	....	2	4	....	....	35	10	4	5	25	35	35									
Candles, less than 25 boxes	2	4	32	18	2	5	32	15	4	4	26	25	4	5	26	22	4	2	4	60	60	35	4	2	5	60	60	35									
Candles, more than 25 boxes	2	4	32	18	4	5	18	15	4	4	26	25	5	5	21	22	6	2	4	45	60	35	9	4	5	30	35	30									
Canned vegetables	3	4	23	18	4	5	18	15	4	4	26	25	5	5	21	22	7	4	4	40	35	35	8	4	5	35	35	30									
Canned fruit and fish	3	4	23	18	4	5	18	15	4	4	26	25	5	5	21	22	6	4	4	45	35	35	7	4	6	40	35	30									
Carboys, empty, O. R	1	3	40	25	4	5	18	15	1	3	65	34½	6	5	18	22	1	1	3	100	75	50	6	4	5	45	35	30									
Cards, show chromo advertising	1	1	40	35	1	3	40	25	1	1	65	53½	1	3	65	34½	1	1	1	100	75	75	6	1	3	45	75	50									
Carpeting	1	1	40	35	1	1	40	35	1	1	65	53½	1	1	65	53½	1	1	1	100	75	75	1	1	1	100	75	70									
Carpeting, jute or hemp	1	2	40	30	1	2	40	30	1	2	65	47	1	2	65	47	1	2	2	100	60	65	1	2	2	100	60	60									
Cartridges, metallic	2	2	32	30	2	4	32	18	....	2	....	47	....	4	....	25	4	2	2	60	60	65	6	2	4	45	60	30									
Cement, building	4	5	18	15	C	6	14	18	5	5	21	22	(†)	6	....	18	8	(*)	5	35	25	30	10	(*)	6	25	25	20									
Chains, iron, loose	2	4	32	18	A	5	15	15	3	4	38	25	5	5	21	22	2	2	4	85	60	35	2	2	5	85	60	30									
Chain, cable	2	4	32	18	A	5	15	15	4	4	26	25	5	5	21	22	6	4	4	45	35	35	10	4	5	25	35	30									
Charcoal, lump	4	3	18	25	B	6	14½	13	3	3	38	34½	6	6	18	18	....	3	3	....	45	50	10	4	6	25	35	25									
Chinaware in boxes	1	1	40	35	1	1	40	35	1	1	65	53½	1	1	65	53½	1	1	1	100	75	75	1	1	1	100	75	75									
Chinaware in barrels or casks	1	2	40	30	1	2	40	30	2	2	50	47	2	2	50	47	2	1	2	85	75	65	2	1	2	85	75	65									
Chocolate	2	2	32	30	2	2	32	30	2	2	50	47	2	2	50	47	2	2	2	85	60	65	2	2	2	85	60	65									
Cider in wood	4	3	18	25	A	5	15	15	4	3	26	25	5	5	21	22	6	4	3	45	35	50	10	4	5	25	35	30									
Cigars in boxes, corded, sealed, and strapped	1	1	40	35	1	1	40	35	1	1	65	53½	1	1	65	53½	1	1	1	100	75	75	1	1	1	100	75	75									
Clocks	1	1	40	35	1	1	40	35	1	1	65	53½	1	1	65	53½	1	1	1	100	75	75	1	1	1	100	75	75									
Cloth, wire, in boxes or casks	2	3	32	25	2	5	32	15	1	3	65	53½	1	5	65	22	1	2	3	100	60	50	6	2	5	45	60	30									
Cloth, wire, in rolls	3	3	23	25	3	5	23	15	1	3	65	53½	1	5	65	22	1	3	3	100	45	50	6	3	5	45	45	30									
Clothing, boxed	1	1	40	35	1	1	40	35	1	1	65	53½	1	1	65	53½	1	1	1	100	75	75	1	1	1	100	75	75									
Cocoa	2	2	32	30	2	2	32	30	2	2	50	47	2	2	50	47	2	2	2	85	60	65	2	2	2	85	60	65									
Cocoanuts in bags	2	2	32	30	4	4	18	18	1	2	65	47	1	4	65	25	2	2	2	85	60	65	2	2	4	85	60	35									
Coffee, ground or roasted	4	4	18	18	4	6	18	13	4	4	26	25	5	6	21	18	5	4	4	50	35	35	5	(*)	6	50	25	25									
Coffee, green, in sacks	4	4	18	18	4	6	18	13	4	4	26	25	5	6	21	18	6	4	4	45	35	35	6	(*)	6	45	25	25									

* Special.

† Special tariff.

Commodities.	Joint Merchandise compared with Official No. 11. Between Philadelphia, Pa., and Elmira, N. Y.								Middle and Western States compared with Official No. 11. From Buffalo, N. Y., to East St. Louis, Ill.								East Bound and West Bound compared with Official No. 11. Between New York, N. Y., and Chicago, Ill.											
	Less than carloads.				Carloads.				Less than carloads.				Carloads.				Less than carloads.						Carloads.					
	Class.		Rate.		Class.		Rate.		Class.		Rate.		Class.		Rate.		Class.		Rate.				Class.			Rate.		
	Joint Merchandise, 1886.	Official No. 11, 1893.	Joint Merchandise, 1886.	Official No. 11, 1891.	Joint Merchandise, 1886.	Official No. 11, 1893.	Joint Merchandise, 1886.	Official No. 11, 1893.	Md. and West. States, 1886.	Official No. 11, 1893.	Md. and West. States, 1886.	Official No. 11, 1893.	Md. and West. States, 1886.	Official No. 11, 1893.	Md. and West. States, 1886.	Official No. 11, 1893.	East Bound, 1886.	West Bound, 1886.	Official No. 11, 1893.	East Bound, 1886.	West Bound, 1886.	Official No. 11, 1893.	East Bound, 1886.	West Bound, 1886.	Official No. 11, 1893.	East Bound, 1886.	West Bound, 1886.	Official No. 11, 1893.
Cotton waste, pressed, in bales	4	4	18	18	4	4	18	18	3	4	38	25	3	4	38	25	6	4	4	45	35	35	6	4	4	45	35	35
Cotton waste, not pressed	1	1	40	35	1	1	40	35	1	1	65	53½	1	1	65	53½	1	1	1	100	75	75	1	1	1	100	75	75
Currants, dried, in boxes, kegs, or bags	3	3	23	25	3	4	23	18	3	3	38	34½	4	4	26	25	...	2	3	...	60	50	6	2	4	45	60	35
Cutlery	2	2	32	30	2	2	32	30	2	2	50	47	2	2	50	47	2	2	2	85	60	65	2	2	2	85	60	65
Dates	3	2	23	30	4	4	18	18	2	2	50	47	2	4	50	25	2	2	2	85	60	65	2	2	4	85	60	35
Demijohns	D1	D1	80	70	4	D1	18	70	D1	D1	130	107	4	D1	26	107	D1	2 t	D1	200	150	150	6	2 t 1	D1	45	150	150
Dry goods as follows: calicoes, Canton flannel, canvas, corset jeans, cottonades, cotton warp, cotton yarn, crash, domestic checks, stripes, and cheviots, cotton duck, denims, twills, domestic, ginghams, glazed cambrics, etc., in bales or boxes	1	3	40	25	1	3	40	25	1	3	65	34½	1	3	65	34½	1	1	3	100	75	50	1	1	3	100	75	50
Dye woods in stock	3	3	23	25	3	3	23	25	3	3	38	34½	3	3	38	34½	3	3	3	70	45	50	3	3	3	70	45	50
Eggs, packed in barrels or boxes	2	2	32	30	4	2	18	30	2	2	50	47	4	2	26	47	3	1	2	70	75	65	3	1	2	70	75	65
Emery in barrels or casks	4	4	18	18	4	5	18	15	2	4	50	25	2	5	50	22	4	4	4	60	35	35	...	...	5	...	...	30
Emery in kegs	2	4	32	18	2	5	32	15	2	4	50	25	2	5	50	22	4	2	4	60	60	35	4	2	5	60	60	30
Emery wheels	1	2	40	30	1	4	40	18	...	2	...	47	...	4	...	25	3	2	2	70	60	65	8	2	4	35	60	35
Engines, stationary	3	2	23	30	4	5	18	15	2	2	50	47	2	5	50	22	1	1	2	100	75	65	6	4	5	45	35	30
Excelsior in bales	2	2	32	30	A	5	15	15	2	2	50	47	6	5	18	22	2	2	2	85	60	65	9	4	5	30	35	30
Extract of logwood in barrels	3	3	23	25	A	5	15	15	2	3	50	34½	6	5	18	22	2	2	3	85	60	50	2	2	5	85	60	30
Extract of malt packed in boxes	1	1	40	35	1	3	40	25	2	1	50	53½	4	3	26	34½	3	1	1	70	75	75	4	1	3	60	75	50
Farina	4	4	18	18	4	5	18	15	5	4	21	25	6	5	18	22	12	4	4	30	35	35	13	4	5	30	35	30
Felt roofing	3	4	23	18	A	5	15	15	4	4	26	25	6	5	18	22	6	4	4	45	35	35	9	4	5	50	35	30
Fencing wire	...	3	...	25	...	5	...	15	...	3	...	34½	...	5	...	22	...	...	3	...	...	50	...	...	5	...	...	30
Fertilizers, in barrels	4	4	18	18	C	6	14	13	4	4	26	25	6	6	18	18	6	4	4	45	35	35	6	(*)	6	45	25	25
Figs, in drums	1	1	40	35	1	1	40	35	1	1	65	53½	1	1	65	53½	1	1	1	100	75	75	1	1	1	100	75	75
Floor tiling	4	4	18	18	4	5	18	15	4	4	26	25	5	5	21	22	6	4	4	45	35	35	6	4	5	45	35	30
Flour, in barrels	4	5	18	15	A	6	15	13	5	5	21	22	(*)	6	....	18	12	4	5	30	35	30	13	4	6	30	35	25
Flour, in sacks	4	5	18	15	A	6	15	13	5	5	21	22	(*)	6	....	18	12	2	5	30	60	30	13	2	6	30	60	25
Gas fixtures	2	2	32	30	2	2	32	30	2	2	50	47	2	2	50	47	2	2	2	85	60	65	2	2	2	85	60	65
Gas pipe, iron	4	4	18	18	A	5	15	15	4	4	26	25	5	5	21	22	10	4	4	25	35	25	10	4	5	25	35	30

Ginger	2	2	32	30	2	2	32	30	2	2	50	47	2	2	50	47	2	2	2	85	60	65	2	2	2	85	60	65
Ginsing, in sacks	1	1	40	35	1	1	40	35	1	1	65	53½	1	1	65	53½	1	1	1	100	75	75	1	1	1	100	75	75
Glass, window, over 80 united inches, O. R. B.	1	3	40	25	1	5	40	15	4	3	26	34½	5	5	21	22	....	1	3	....	75	50	....	1	5	....	75	30
Glassware, N. O. S	1	2	40	30	1	3	40	25	3	2	38	47	3	3	38	34½	3	1	2	70	75	65	6	2	3	45	60	50
Glue, in barrels or casks	4	4	18	18	4	5	18	15	4	4	26	25	4	5	26	22	4	4	4	60	35	35	4	4	5	60	35	30
Glycerin, crude, in barrels or drums	3	3	23	25	3	4	23	18	4	3	26	34½	5	4	21	25	4	3	3	60	45	50	6	3	4	45	45	35
Grain, in barrels	4	5	18	15	A	6	15	13	....	5	....	22	....	6	....	18	12	4	5	30	35	30	13	4	6	30	35	25
Grain, in sacks	4	5	18	15	A	6	15	13	5	5	21	22	(*)	6	....	18	5	2	5	50	60	30	8	2	6	35	60	25
Graniteware, boxed	....	2	....	30	....	4	....	18	1	2	65	47	1	4	65	25	3	2	2	70	60	65	6	2	4	45	60	35
Grease, axle, in barrels or boxes	4	4	18	18	4	5	18	15	4	4	26	25	5	5	21	22	6	4	4	45	35	35	10	4	5	25	35	30
Grindstones, O. R	3	4	23	18	A	6	15	13	4	4	26	25	4	6	26	18	6	4	4	45	35	35	9	4	6	30	35	25
Grindstones, mounted, O. R	3	3	23	30	A	6	15	13	3	2	38	47	6	6	18	18	3	2	2	70	60	65	9	2	6	30	60	25
Grits, in barrels	3	5	23	15	3	6	23	13	5	5	21	22	(*)	6	....	18	12	4	5	30	35	30	13	4	6	30	35	25
Groceries, assorted, N. O. S	2	1	32	35	2	1	32	35	2	1	50	53½	2	1	50	53½	2	2	1	85	60	75	2	2	1	85	60	75
Guano, in barrels or bags	4	4	18	18	C	6	14½	13	4	4	26	25	6	6	18	18	6	4	4	45	35	35	10	4	6	25	35	25
Gum, chewing, in cases or barrels	....	2	....	30	....	2	....	25	1	2	65	47	1	2	65	47	2	1	2	85	75	65	2	1	2	85	75	65
Hair, in sacks	1	1	40	35	1	5	40	15	1	1	65	53½	1	5	65	22	1	1	1	100	75	75	1	1	5	100	75	30
Hair, in bales	3	3	23	25	3	5	23	15	1	3	65	34½	1	5	65	22	6	2	3	45	60	50	6	2	5	45	60	30
Hams, in bags	2	3	32	25	2	4	32	18	2	3	50	34½	5	4	21	25	12	3	3	30	60	50	12	2	4	30	60	35
Hay, in bales	1½t1	1	60	35	B	6	14½	13	1	1	65	53½	6	6	18	18	3	1	1	70	45	75	13	4	6	30	35	25
Hemp, covered	3	2	23	30	4	4	18	18	3	2	38	47	4	4	26	25	4	2	2	60	60	65	4	3	4	60	45	35
Hides, beef or calf, green, in bundles	4	4	18	18	A	5	15	15	4	4	26	25	5	5	21	22	6	4	4	45	35	35	12	4	5	30	35	30
Hinges, iron or steel, in boxes	....	4	....	18	....	5	....	15	4	4	26	25	5	5	21	22	6	3	4	45	45	35	6	3	5	45	45	30
Hoes, in boxes, barrels, or casks	2	4	32	18	4	4	18	18	4	4	26	25	5	4	21	25	6	2	4	45	60	35	6	4	4	45	35	35
Honey in cans, boxed	1	2	40	30	1	4	40	18	2	2	50	47	2	4	50	25	3	1	2	70	75	65	3	1	4	70	75	35
Hoofs and horns, in packages	4	4	18	18	C	5	14	15	4	4	26	25	6	5	18	22	6	3	4	45	45	35	9	4	5	30	35	30
Hops, in bales	2	2	32	30	3	3	23	25	3	2	38	47	3	3	38	34½	2	2	2	85	60	65	2	2	3	85	60	50
Horseshoes, in boxes or kegs	4	4	18	18	A	5	15	15	4	4	26	25	5	5	21	22	10	4	4	25	35	35	10	4	5	25	35	30
Hose, rubber, canvas, or leather, boxed	2	3	32	25	2	4	32	18	3	3	38	34½	3	4	38	25	....	2	3	....	60	50	....	2	4	....	60	35
Household goods, second-hand, O. R	1	1	40	35	2	2	32	30	1	1	65	53½	4	2	26	47	1	2t1	1	100	150	75	6	1	2	45	75	65
Hubs, in barrels or boxes	2	3	32	25	2	4	32	18	4	3	26	34½	5	4	21	25	....	2	3	....	60	50	....	2	4	....	60	35
Indigo	1	1	40	35	1	1	40	35	1	1	65	53½	1	1	65	53½	1	1	1	100	75	75	1	1	1	100	75	75
Ink, writing or printing, in boxes or barrels	2	2	32	30	2	3	32	25	3	2	38	47	3	3	38	34½	3	2	2	70	60	65	4	2	3	60	60	50
Ink, in glass or stone, boxed	1	1	40	30	1	3	40	25	2	1	50	53½	2	3	50	34½	3	1	1	70	75	75	4	1	3	60	75	50
Iron, castings, under 100 pounds each	2	4	32	18	A	5	15	15	1	4	65	25	3	5	38	22	2	1	4	85	75	35	10	3	5	25	45	30
Iron, nuts, bolts, washers, rivets, and staples, in boxes	4	4	18	18	A	5	15	15	4	4	26	25	5	5	21	22	10	3	4	25	45	35	10	3	5	25	45	30
Iron, car wheels	4	4	18	18	B	6	14½	13	4	4	26	25	5	6	21	18	10	4	4	25	35	35	10	4	6	25	35	25
Isinglass	1	1	40	35	1	1	40	35	2	1	50	53½	2	1	50	53½	2	1	1	85	75	75	2	1	1	85	75	75
Jacks, iron, boxed	2	4	32	18	2	4	32	18	4	4	26	25	4	4	26	25	....	2	4	....	60	35	....	2	4	....	60	35
Jute	3	3	23	25	4	4	18	18	....	3	....	34½	....	4	....	25	6	3	3	45	45	50	9	3	4	30	45	35
Jute butts	4	4	18	18	A	6	15	13	4	4	26	25	5	6	21	18	....	4	4	....	35	35	....	4	6	....	35	25
Ladders, step	1	1	40	35	1	5	40	15	1	1	65	53½	3	5	38	22	1	1	1	100	75	75	6	1	5	45	75	30
Lard, in barrels or boxes	4	4	18	18	4	5	18	15	4	4	26	25	5	5	21	22	12	4	4	30	35	35	12	4	5	30	35	30
Lead, black, in casks	4	4	18	18	A	5	15	15	4	4	26	25	5	5	21	22	3	3	4	70	45	35	3	4	5	70	35	30
Lampblack	1	1½	40	53	1	3	40	25	1	1½	65	80½	5	3	21	34½	1½	1	1½	150	75	113	1½	1	3	150	75	50
Lead, white, in kegs or barrels	4	4	18	18	A	5	15	15	4	4	26	25	5	5	21	22	10	4	4	25	35	35	10	4	5	25	35	30
Leather, in rolls	2	3	32	25	4	4	18	18	3	3	38	34½	4	4	26	25	4	2	3	60	60	50	4	2	4	60	60	35
Leather, scrap, in bags or crates	3	3	23	25	3	5	23	18	....	3	....	34½	....	5	....	22	6	3	3	45	45	50	10	3	5	25	45	30

*Special.

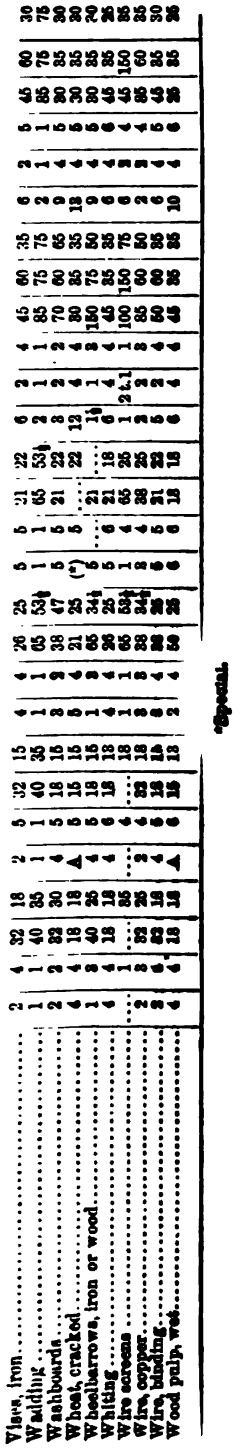
Commodities.	Joint Merchandise compared with Official No. 11. Between Philadelphia, Pa., and Elmira, N. Y. — Less than carloads — Class — Joint Merchandise, 1886.	Official No. 11, 1893.	Rate — Joint Merchandise, 1886.	Official No. 11, 1893.	Carloads — Class — Joint Merchandise, 1886.	Official No. 11, 1893.	Rate — Joint Merchandise, 1886.	Official No. 11, 1893.	Middle and Western States compared with Official No. 11. From Buffalo, N. Y., to East St. Louis, Ill. — Less than carloads — Class — Md. and West. States, 1886.	Official No. 11, 1893.	Rate — Md. and West. States, 1886.	Official No. 11, 1893.	Carloads — Class — Md. and West. States, 1886.	Official No. 11, 1893.	Rate — Md. and West. States, 1886.	Official No. 11, 1893.	East Bound and West Bound compared with Official No. 11. Between New York, N. Y., and Chicago, Ill. — Less than carloads — Class — East Bound, 1886.	West Bound, 1886.	Official No. 11, 1893.	Rate — East Bound, 1886.	West Bound, 1886.	Official No. 11, 1893.	Carloads — Class — East Bound, 1886.	West Bound, 1886.	Official No. 11, 1893.	Rate — East Bound, 1886.	West Bound, 1886.	Official No. 11, 1893.
Lemons	1	2	40	30	2	3	32	25	1	2	65	47	3	3	38	34½	1	1	2	100	75	65	5	3	3	50	60	50
Licorice, root	2	2	32	30	A	4	15	18	3	2	38	47	3	4	38	25	2	2	2	85	60	65	2	2	4	85	60	35
Licorice, powdered, in barrels	....	2	....	30	....	4	....	18	3	2	38	47	3	4	38	25	5	2	2	50	60	65	5	2	4	50	60	35
Lime, in barrels	4	5	18	15	B	6	14½	18	5	5	21	22	(*)	6	....	18	3	4	5	35	35	30	10	4	6	25	35	25
Lime-water, in barrels	....	4	....	18	....	4	....	18	4	4	26	25	4	4	26	25	2	....	4	85	...	35	2	....	4	85	....	35
Logs	....	4	....	18	....	6	....	13	4	4	26	25	(*)	6	....	18	6	4	4	45	35	35	11	4	6	25	35	25
Lumber, sawed, not over 27 feet, pine and oak	4	4	18	18	B	6	14½	18	4	4	26	25	(*)	6	....	18	6	4	4	45	35	35	11	4	6	25	35	25
Lye, concentrated	4	4	18	18	4	5	18	15	4	4	26	25	5	5	21	22	6	4	4	45	35	35	9	4	5	30	35	30
Machines, sewing, K. D., boxed	1	1	40	35	4	3	18	25	3	1	38	53½	4	3	26	34½	2	2	1	85	60	75	2	2	3	85	60	50
Mahogany boards and planks	3	3	23	25	4	5	18	15	3	3	38	34½	4	5	26	22	3	3	3	70	45	50	3	4	5	70	35	30
Mahogany logs	4	4	18	18	4	5	18	15	4	4	26	25	4	5	26	22	6	4	4	45	35	35	6	4	5	45	35	30
Malt in barrels	4	5	18	15	A	6	15	18	....	5	....	22	....	6	....	18	12	4	5	30	35	30	13	4	6	30	35	25
Manganese	4	4	18	18	4	6	18	18	4	4	26	25	4	6	26	18	8	4	4	35	35	35	9	4	6	30	35	25
Manilla	4	3	18	25	4	4	18	18	3	3	38	34½	3	4	38	25	6	4	3	45	35	50	6	4	4	45	35	35
Marble slabs, unwrought, O. R.	....	4	....	18	....	5	....	15	4	4	26	25	5	5	21	22	6	4	4	45	35	35	6	4	5	45	35	30
Marble dust	4	4	18	18	B	6	14½	13	5	4	21	25	6	6	18	18	6	4	4	45	35	35	10	4	6	25	35	25
Mats, grass	1	....	40	....	1	....	40	....	3	....	38	....	4	....	26	....	1	2	....	100	60	....	1	2	....	100	60	....
Matting, hemp, jute, or pine fiber	....	2	....	30	....	4	....	18	2	2	50	47	4	4	26	25	1	1	2	100	75	65	1	1	4	100	75	35
Meal, in bulk	....	....	....	....	....	6	....	13	....	....	....	....	(*)	6	....	18	....	....	6	....	25	25	18	4	6	30	35	25
Meats, canned, boxed	3	4	23	18	4	5	18	15	4	4	26	25	5	5	21	22	12	4	4	30	35	35	12	4	5	30	35	30
Meats, salted, boxed	4	4	18	18	4	5	18	15	4	4	26	25	5	5	21	22	12	4	4	30	35	35	12	4	5	30	35	30
[illegible], condensed, in cans, boxed	3	3	23	25	3	4	23	18	3	3	38	34½	4	4	26	25	4	4	3	60	35	50	6	4	4	45	35	35
[illegible], in rough	4	4	18	18	A	5	15	15	4	4	26	25	5	5	21	22	6	4	4	45	35	35	6	4	5	45	35	30
[illegible] water, in wood	3	4	23	18	4	5	18	15	4	4	26	25	5	5	21	22	6	3	4	45	45	35	9	4	5	30	35	30
[illegible] pulp	4	4	18	18	C	5	14	15	....	4	....	25	....	5	....	22	....	....	4	....	35	35	....	4	5	....	35	30
[illegible] and spikes, in [illegible]	4	4	18	18	A	5	15	15	4	4	26	25	5	5	21	22	10	4	4	25	35	35	10	4	5	25	35	30
[illegible], horseshoe, or finishing, in boxes	3	4	23	18	3	5	23	15	3	4	38	25	3	5	38	22	10	3	4	25	45	35	10	3	5	25	45	30
[illegible]	4	4	18	18	A	5	15	15	....	4	....	25	....	5	....	22	10	4	4	25	35	35	10	4	5	25	35	30
[illegible], dry, in barrels	1	3	40	25	4	5	15	15	....	3	....	34½	....	5	....	22	3	....	3	85	....	50	3	....	5	85	....	30
[illegible], hickory, in barrels	3	3	32	25	2	4	32	15	4	3	26	34½	4	4	26	25	6	2	3	45	60	50	6	2	4	45	60	35
[illegible], peanut, in barrels	3	3	32	25	3	4	32	15	3	3	38	34½	4	4	26	25	3	3	3	50	60	50	6	3	4	45	60	25

Oakum	2	2	32	30	2	4	32	18	2	2	50	47	2	4	50	25	2	2	2	85	60	65	2	2	4	85	60	35	
Oil, petroleum, coal, kerosene, carbon, naphtha	3	....	23	....	4	....	18	....	3	....	38	....	(*)	....	....	....	3	2½	....	70	150	....	3	4	....	70	55	....	
Oranges	1	2	40	30	2	3	22	26	1	2	65	47	3	3	38	34½	1	1	2	100	75	65	5	2	3	80	60	50	
Oysters, fresh, in cans	....	1½	....	58	....	1½	....	58	1	1½	65	30½	1	1½	65	30½	1	1½1	1½	100	112½	113	1	1½	1½	100	112½	112	
Packing, rubber	2	3	32	26	2	4	32	18	3	3	38	34½	3	4	38	25	2	3	3	85	45	50	2	3	4	85	45	35	
Paints, asbestos, asphalt, chemical earth, iron, lead, metallic, mineral, ocher, paraffine, rubber, zinc, oxide, in oil, in barrels	4	3	18	25	A	5	15	15	3	3	38	34½	3	5	38	22	6	4	3	45	35	50	6	4	5	45	35	30	
Paper bags	2	3	32	25	4	5	18	15	4	3	26	34½	5	5	21	22	5	4	3	50	35	50	10	4	5	25	35	30	
Paper, wrapping, straw or manilla	2	3	32	25	4	5	18	15	4	3	26	34½	5	5	21	22	5	....	3	50	....	50	10	4	5	25	35	30	
Paraffine wax	....	4	....	18	....	5	....	15	4	4	26	25	5	5	21	22	8	1	4	35	75	35	8	1	5	35	75	30	
Pease, dried, in barrels or sacks	3	4	23	18	4	5	18	15	4	4	26	25	5	5	21	22	9	4	4	30	35	35	10	4	5	25	35	30	
Pegs, shoe, in barrels	1	3	40	25	4	5	18	15	2	3	50	34½	2	5	50	22	4	2	3	60	60	50	9	2	5	30	60	30	
Pickles, in barrels or casks	4	3	18	25	4	5	18	15	4	3	26	34½	5	5	21	22	6	4	3	45	35	50	9	4	5	30	35	30	
Pipe, lead, on reels or in rolls, O. R	2	3	32	25	2	4	32	18	....	3	....	34½	....	4	....	25	6	1	3	45	75	50	7	1	6	40	75	35	
Pitch, in barrels	4	4	18	18	A	6	15	13	4	4	26	25	6	6	18	18	6	4	4	45	35	35	10	4	6	25	35	25	
Potash, muriate of, for fertilising purposes	4	4	18	18	C	6	14	13	4	4	26	25	6	6	18	18	6	4	4	45	35	35	9	4	6	30	35	25	
Preserves, printing, boxed, O. R	1	2	40	30	1	5	40	15	3	2	38	47	3	5	38	22	3	2	2	70	60	65	3	2	5	70	60	30	
Printed matter, in sheets, boxed	1	1	40	35	1	3	40	25	1	1	65	53½	1	3	65	34½	2	1	1	85	75	75	3	1	3	70	75	50	
Printed matter, in bundles	....	1	....	35	....	3	....	25	....	1	....	53½	....	3	....	34½	1	1	1	100	75	75	1	1	3	100	75	50	
Prunes, in boxes or kegs	3	3	23	25	4	4	18	18	2	3	50	34½	2	4	50	25	2	2	3	85	60	50	2	2	4	85	60	35	
Prunes, in barrels or casks	3	3	23	25	4	4	18	18	3	3	38	34½	3	4	38	25	3	4	3	70	35	50	3	4	4	70	35	35	
Pulp, mineral	4	4	18	18	C	5	14	15	....	4	....	25	....	5	....	22	....	3	4	....	45	35	....	4	5	....	35	30	
Pulp, wood, wet	4	4	18	18	A	6	15	13	2	4	50	25	6	6	18	18	6	4	4	45	35	35	10	4	6	25	35	25	
Pumice stone, in boxes, kegs, or bags	3	4	23	18	3	5	23	15	3	4	38	25	3	5	38	22	....	3	4	....	60	35	....	2	5	....	60	30	
Pumice stone, in barrels or casks	3	4	23	18	3	5	23	15	3	4	38	25	3	5	38	22	3	4	4	70	35	35	3	4	5	70	35	30	
Putty, in barrels	4	4	18	18	4	5	18	15	4	4	26	25	4	5	26	22	6	4	4	45	35	35	6	4	5	45	35	30	
Radiators, steam	3	3	23	25	4	5	18	15	4	3	26	34½	5	5	21	22	6	3	3	45	45	50	9	4	5	30	35	30	
Rags, in sacks	....	2	....	30	....	2	....	30	1	2	65	47	5	2	21	47	1	2	2	100	60	65	1	2	2	100	60	65	
Rags, pressed, in bales	4	5	18	15	4	5	18	15	4	5	26	22	5	5	21	22	10	4	5	25	35	30	10	4	5	25	35	30	
Raisins	2	3	32	25	3	4	23	18	2	3	50	34½	2	4	50	25	2	3	3	85	45	50	2	3	4	85	45	35	
Rattan	1	1	40	35	1	3	40	25	1	1	65	53½	1	3	65	34½	1	1	1	100	75	75	1	1	3	100	75	50	
Refrigerators	1	2	40	30	1	2	40	30	3	2	38	47	3	2	38	47	3	1	2	70	75	65	3	1	2	70	75	65	
Rice	4	4	18	18	4	6	18	13	4	4	26	22	5	6	21	18	6	4	4	45	35	35	6	4	6	45	35	25	
Roofing, felt	3	4	23	18	A	5	15	15	4	4	26	22	6	5	18	22	6	4	4	45	35	35	9	4	5	30	35	30	
Roofing, paper	3	4	38	18	A	5	15	15	4	4	26	22	6	5	18	22	5	4	4	50	35	35	10	4	5	25	35	30	
Rope, in coils	4	3	18	25	4	4	18	18	4	3	26	34½	5	4	21	25	6	4	3	45	35	50	6	4	4	45	35	35	
Rope, wire	4	4	18	18	4	5	18	15	3	4	38	25	3	5	38	22	6	4	4	45	35	35	6	4	5	45	35	30	
Rosin, in barrels	4	4	18	18	A	6	15	13	4	4	26	25	6	6	18	18	6	(*)	4	45	25	35	10	(*)	6	25	25	25	
Rugs, woolen, hemp, or jute	1	1	40	35	1	4	40	18	1	1	65	53½	1	4	65	25	1	1	1	100	75	75	1	1	4	100	75	35	
Sadirons, in boxes	4	4	18	18	A	5	15	15	4	4	26	25	5	5	21	22	6	2	4	45	60	35	6	2	5	45	60	30	
Sadirons, in barrels	4	4	18	18	A	5	15	15	4	4	26	25	5	5	21	22	....	4	4	....	35	35	....	4	5	....	35	30	
Salt, in boxes	....	4	....	18	....	4	....	18	4	4	26	25	4	4	26	25	6	2	4	45	60	35	6	2	4	45	60	35	
Salt, in barrels	4	5	18	15	B	5	14½	15	5	5	21	22	(*)	5	21	22	6	(*)	5	45	25	30	6	(*)	5	45	25	30	
Salts, Epsom or Glauber, in barrels	4	4	18	18	4	5	18	15	4	4	26	25	5	5	21	22	3	4	4	70	35	35	3	4	5	70	35	30	
Sardines, in boxes	1	4	40	18	1	5	40	15	2	4	50	25	2	5	50	22	2	2	4	85	60	35	2	2	5	85	60	30	
Sash weights, loose	4	3	18	25	A	5	15	15	3	3	38	34½	5	5	21	22	2	2	3	85	60	50	10	2	5	25	60	30	
Sash weights, in bundles of 50 pounds	4	4	18	18	A	5	15	15	4	4	26	25	5	5	21	22	6	4	4	45	35	35	10	4	5	25	35	30	
Scales and scale beams, not boxed	3	1	32	35	2	5	32	15	1	1	65	53½	4	5	26	22	1	1	1	100	75	75	1	1	5	100	75	30	

* Special.

Commodities.	Joint Merchandise compared with Official No. 11. Between Philadelphia, Pa., and Elmira, N. Y.						Middle and Western States compared with Official No. 11. From Buffalo, N. Y., to East St. Louis, Ill.						East Bound and West Bound compared with Official No. 11. Between New York, N. Y., and Chicago, Ill.					
	Less than carloads.		Carloads.				Less than carloads.		Carloads.				Less than carloads.			Carloads.		
	Class.	Joint Merchandise, 1886.	Class.	Official No. 11, 1893.	Joint Merchandise, 1886.	Official No. 11, 1893.	Class.	Md. and West States, 1886.	Class.	Official No. 11, 1893.	Md. and West States, 1886.	Official No. 11, 1893.	Class.	West Bound, 1886.	East Bound, 1886.	Class.	West Bound, 1886.	East Bound, 1886.
Scythes, in boxes	2	3	2	3	2	25	1	3	3	3	4	34½	2	3	3	3	60	50
Seeds, garden	3	2	3	5	40	15	3	3	5	5	26	22	3	5	5	5	45	30
Seeds, grass or orchard	3	3	3	5	23	15	3	3	5	5	26	22	3	5	5	5	35	30
Shot, in kegs	3	4	3	5	23	18	4	4	6	6	26	25	4	6	6	6	45	30
Shovels or spades, in boxes	2	4	3	5	23	18	4	4	6	6	26	25	4	6	6	6	45	35
Slate roofing	4	4	4	B	52	18	4	4	6	6	26	25	4	6	6	6	45	35
Slates, school, boxed	3	4	4	4	18	18	3	4	6	6	26	18	4	6	6	6	45	35
Slate, bed, in bundles		3	4	5	23	13	3	4	6	5	26	18	4	6	6	6	70	25
Soap, common, in boxes		4	4	A	25	18	3	4	6	5	26	22	4	6	6	6	45	30
Soda, sal		4	4	4	18	18	3	4	6	5	26	21	4	6	6	6	45	35
Spelter		3	4	4	18	13	4	4	6	6	26	21	4	6	6	6	45	35
Spikes, in kegs		4	4	4	18	13	4	4	6	6	26	18	4	6	6	6	45	35
Starch, in barrels or boxes		4	4	4	23	15	4	4	6	6	26	18	4	6	6	6	45	35
Stearine, in barrels		4	4	4	18	15	4	4	6	6	26	21	4	6	6	6	45	35
Strawboards, in bundles		3	3	A	25	15	4	3	6	5	26	22	4	6	6	6	45	35
Sugar, maple		3	4	3	23	15	3	3	6	5	26	22	4	6	6	6	45	35
Sugar, grape		4	4		18	18	3	3	6	5	26	25	4	6	6	6	45	35
Sugar, n. o. s		4	4	4	18	13	4	4	6	6	26	18	4	6	6	6	45	35
Sulphur, in barrels		4	4	4	18	18	4	4	6	6	26	25	4	6	6	6	45	35
Syrup, in cans, boxed		3	3	4	18	18	4	4	6	6	26	21	4	6	6	6	45	35
Tacks, iron, in boxes		2	4	A	23	15	4	4	6	6	26	22	4	6	6	6	45	35
Tallow		4	4	4	18	15	4	4	6	6	26	22	4	6	6	6	45	35
Tapioca		3	4	4	18	15	4	4	6	6	26	23	4	6	6	6	45	35
Tar, in barrels		4	4	A	18	15	4	4	6	6	26	23	4	6	6	6	45	35
Tea		1	4	1	40	35	1	1	1	1	65	53	1	1	1	1	75	75
Terra alba, in barrels		4	4	A	18	15	4	4	6	6	26	23	4	6	6	6	45	35
Tin, n. o. s., boxed		4	4	D1	40	35	4	4	6	6	26	23	4	6	6	6	45	35
Tobacco, leaf		D1	1	A	80	35	1	1	1	1	65	53	1	1	1	1	100	75
Tobacco, in cases		4	4	1	40	35	4	4	6	6	26	23	4	6	6	6	45	35
Tobacco, in cases, boxed		4	4	1	40	35	4	4	6	6	26	23	4	6	6	6	45	35
Trees, vine, in barrels		4	4	4	40	18	4	4	6	6	26	23	4	6	6	6	45	35

Commodities.	East Bound and West Bound compared with Official No. 11. Between New York, N. Y., and Chicago, Ill.					
	Carloads.					
	Class.			Rate.		
	West Bound, 1886.	East Bound, 1886.	Official No. 11, 1893.	West Bound, 1886.	East Bound, 1886.	Official No. 11, 1893.
Scythes, in boxes	3	3	3	60	50	50
Seeds, garden	5	5	5	45	35	30
Seeds, grass or orchard	5	5	5	35	35	30
Shot, in kegs	5	5	5	35	35	30
Shovels or spades, in boxes	4	4	4	45	35	35
Slate roofing	6	6	6	45	35	35
Slates, school, boxed	4	4	5	70	45	35
Slate, bed, in bundles	3	3	3	45	25	30
Soap, common, in boxes	4	4	5	70	45	50
Soda, sal	4	4	5	45	30	25
Spelter	4	4	5	45	35	25
Spikes, in kegs	4	4	5	45	35	25
Starch, in barrels or boxes	4	4	5	45	35	30
Stearine, in barrels	4	4	5	45	35	25
Strawboards, in bundles	4	4	5	45	30	30
Sugar, maple	4	4	5	45	25	35
Sugar, grape	4	4	5	45	25	35
Sugar, n. o. s	4	4	5	45	25	35
Sulphur, in barrels	4	4	5	45	25	35
Syrup, in cans, boxed	4	4	5	45	30	30
Tacks, iron, in boxes	4	4	5	45	25	30
Tallow	4	4	5	45	30	30
Tapioca	4	4	5	45	35	30
Tar, in barrels	4	4	5	45	25	35
Tea	1	1	1	100	70	75
Terra alba, in barrels	4	4	5	45	45	35
Tin, n. o. s., boxed	4	4	5	45	45	35
Tobacco, leaf	D1	1	1	100	100	75
Tobacco, in cases	4	4	5	45	45	35
Tobacco, in cases, boxed	4	4	5	45	45	35
Trees, vine, in barrels	4	4	5	45	45	35


Vises, iron
Waistline
Washboards
Wheat, cracked
Wheelbarrows, iron or wood
Whiting
Wire screens
Wire, copper
Wire, binding
Wood pulp, wet
*Special.

The most satisfactory form of presenting the general results of the consolidation of the classifications which was made on April 1, 1887, is given by the following table, showing the number of articles covered by the former classifications which were superseded by the Official classification.

The table is arranged to show the total number of classifications or descriptions, and also the proportion receiving separately less than car load and car-load rates, together with the percentage of the number of descriptions in each classification.

TABLE 2—COMPARISON OF VARIOUS CLASSIFICATIONS FORMERLY IN USE IN THE TERRITORY NOW COVERED BY THE OFFICIAL CLASSIFICATION WITH OFFICIAL CLASSIFICATION No. 11, EFFECTIVE JANUARY 2, 1893.

Name of classification.	Total number of classifications.		Classified as L. C. L. and C. L. quantity at same rating.		Classified as L. C. L. and C. L. quantity at lower rating.		Classified as C. L. with no rating for L. C. L.		Percentage of the number of classifications in each class to the total number in all classes.																	Summary.	
									Classes.																	Total percentage above fourth class.	Total percentage in fourth class and lower.
	No.	Per cent.	No.	Per cent.	No.	Per cent.	No.	Per cent.	*1.	2.	3.	4.	5	6		8.	9.	10.	11.	12.	13.	A.	B.	C.	Special.	Total.		
Joint Merchandise	1,073	100.00	710	66.17	354	32.99	9	.84	33.15	17.52	9.53	26.28	.....	.....	.....	.....	.....	.....	.....	.....	.....	7.64	3.78	2.10	.....	100.00	60.20	39.80
Middle and West'n States	2,681	100.00	1,673	62.40	669	24.95	339	12.65	22.00	9.14	18.36	25.19	21.43	3.49	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.30	100.00	49.59	50.41
West Bound	971	100.00	824	84.86	137	14.11	10	1.02	31.76	23.65	11.87	30.96	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.26	100.00	66.78	33.22
East Bound	2,037	100.00	1,210	59.40	529	25.97	298	14.63	19.36	10.21	12.39	5.81	3.39	22.14	.98	3.86	7.09	8.42	1.01	3.04	2.30	.....	.....	.....	.....	100.00	†51.16	‡48.84
Official No. 1	2,840	100.00	1,564	55.07	1,011	35.60	265	9.33	26.62	10.41	18.00	20.15	19.29	5.53	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	100.00	55.03	44.97
Official No. 11	5,634	100.00	2,121	37.65	3,105	55.11	408	7.24	22.54	11.96	18.71	18.63	23.46	4.70	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	100.00	53.21	46.79

* Percentage shown includes articles classified higher than 1 class as 4 t 1, D 1, etc.
† Percentage of number of articles in fifth class and higher.
‡ Percentage of number of articles in sixth and lower classes.

In explanation of the figures in the foregoing table it should be stated that the number of items shown represents the entire number of descriptions under which classified freight is shipped, and is much greater than the actual number of articles classified. The class under which any particular article may be shipped and the rate that may be obtained often varies, depending upon its relative size, the manner in which it is packed for shipment, and the degree of risk assumed by the carrier. For example, lead pipe is classified as follows:

	Class.
Lead pipe, on reels or in rolls, carriers risk, less than car loads	1
car load	4
Lead pipe, on reels or in rolls, owner's risk, less than car loads	3
car load	4
Lead pipe, not boxed, not otherwise specified, less than car loads	2
Lead pipe, in boxes or casks, less car load	4

This article is included in the total number of items given in the table as four descriptions, though in fact but one article is classified. The same rule is observed for each of the classifications embraced in the table.

The largest increase in the classification is shown from a comparison of the old West Bound classification in effect prior to April, 1887, which applied from the seaboard to Chicago and other western competitive points. This provided for only 971 separate items. Of this number 824 or 84.86 per cent were classifications for shipments in quantities less than carloads, and which took the same rating when in carloads; 137 or 14.11 per cent were classifications for shipments in quantities less than carloads which had a separate lower rating when in carloads, and 10 or 1.3 per cent covered shipments in carloads only.

In the present Official classification there are 5,634 separate items, of which 2,121 or 37.65 per cent are for shipments in quantities less than carloads, which are given the same rating when in carloads; 3,105 or 55.11 per cent are for shipments in less than carload quantities, which have a separate lower rating when in carloads; and 408 or 7.24 per cent are for shipments in carload quantities only.

From these figures it is shown that the total number of items in the present Official classification exceeds by 4,663 the number in the former West Bound classification applying from the seaboard, and that the proportion classified as L. C. L., with the same rating for C. L., has decreased from 84.86 per cent in the old to 37.65 per cent in the new, while the proportion classified as L. C. L., with a lower rating when in carloads, has increased from 14.11 per cent in the old to 55.11 per cent in the new, and that 7.24 per cent of the present total number of items are for carload quantities only, as compared with 1.03 per cent in the former West Bound classification.

Of the total number of items in the old West Bound classification 66.78 per cent of the articles classified were classed above fourth-class, and 33.22 per cent were in fourth class or lower. These relations are shown to have greatly changed by the present Official classification, from which it is noticed that only 53.21 per cent of the articles classified are in classes higher than fourth class, and that 46.79 per cent are in fourth class or lower.

The number of articles for which no distinction was made as between the L. C. L. and C. L. rates were relatively more in the old classification than in the Official as now arranged, and conversely the number of articles which are classified lower when in C. L. than in L. C. L. quantities in the Official is relatively greater than the number similarly provided for in the old classification. Including the number of articles classified only in carload quantities with the articles classified both L.

C. L. and C. L., the total number of items in the former West Bound classification given a carload rating was 147 or 15.14 per cent, while in the present Official there are 3,513 or 62.35 per cent receiving a carload rating.

A similar comparison made with the Joint Merchandise classification, which governed shipments between the interior points in the Middle States, shows that there has been relatively a much greater increase in the articles which now may be taken at carload rates. The same may be said for the Middle and Western States classification, formerly applied westward from Buffalo and Pittsburg.

The former East Bound classification embraced a relatively larger tonnage taken at carload rates than either of the other old classifications mentioned, yet the application of the Official shows an increase of 2,686 items which may be now carried at carload rates between the points to which the East Bound classification formerly applied.

While the total number of items in the new classification is much greater than in the old classifications, it should be again explained that this numerical increase does not imply an addition to the traffic of new articles of commerce; it simply means that in many cases a commodity which under the old classifications was found in one class only, regardless of the manner in which it might be offered for shipment, is under the new classification placed in two or more different classes, according to the form in which it is received for transportation.

It is made apparent by a comparison of the percentages of classified items now receiving the carload rating, under the old and new classifications, that the public has been to a large degree benefited by the resulting lower rates thereon.

A further illustration of the extent of the enlargement of the classification now under consideration is found in the articles of furniture, agricultural implements, and machinery, as shown by the following table:

TABLE 3.—NUMBER OF DESCRIPTIONS.

	1867.			1876.			1887.			1893.		
	Total.	L. C. L.	C. L.	Total.	L. C. L.	C. L.	Total.	L. C. L.	C. L.	Total.	L. C. L.	C. L.
Furniture	8	8	.....	20	20	2	84	65	19	193	167	4
Agricultural implements	4	4	.....	5	5	2	114	89	25	180	125	5
Machinery	5	5	.....	5	5	2	63	47	16	146	59	8

It would appear from the above figures that the carriers have now provided a classification and rating for every possible form of package in which these articles are offered for shipment, and that the number receiving a lower or carload rating has greatly increased.

Throughout all the tables presented a gradual downward tendency is observed for the entire classification. The extent of these changes is further shown by a comparison of the average rates on all traffic from New York to Chicago. Expressed on the basis of the number of descriptions carried in each class the average rate for all descriptions in the classification was, in 1886, 63.53 cents, and in 1893, 48.77 cents per 100 lbs. Thus the variation in the classification of 20.91 per cent from the higher to lower classes is equivalent to a reduction in the average rate of 14.75 cents per 100 lbs.

In the numerous publications which have appeared from time to time, intended to show the decline in rates, only passing comment has been bestowed upon changes in the rates resulting from changes in freight classifications. It is common to compare the rates for various classes between two points for different periods and to draw conclusions from the changes shown by such comparisons. When these comparisons omit reference to the changes made within the same period in the classification they are obviously incomplete. It is a part of the history of freight classifications that from the date of their adoption constant pressure is brought to bear upon carriers using them from all classes of shippers for a lower classification of the articles in which they have business interest. These demands have usually been met by the carriers, as is shown by the frequent revision and changes in the leading classifications. The changes which have taken place in the classifications since 1887 have been far-reaching in their benefits to the public by the consequent reduction in the freight charges. This has been especially noticeable throughout the section now governed by the Official classification, and the tables have been arranged to present as fully as possible the effect of these changes. Similar results for the other sections governed by a general classification will be shown by appropriate tables.

THE WESTERN CLASSIFICATION.

The Western classification governs the territory north and west of Chicago, west of a line drawn from Chicago to St. Louis, and west of the Mississippi River and St. Louis to New Orleans. Prior to 1887 there were many local classifications used throughout this territory, which it is understood have since been superseded and there are now few roads in the territory described not using the Western classification exclusively.

Traffic not covered by commodity rates to and from the Pacific coast was formerly carried under classifications different in name though similar to the Western. A comparison of these with the present Western would no doubt show important changes. As the greater portion of the traffic to and from the Pacific coast is carried at commodity rates, and a very full statement of the changes in these rates is given elsewhere, no comparison of the classifications applied to Pacific coast traffic will here be made. Seventy important Western roads, with a mileage of 90,000 miles, officially announce the adoption of the present Western classification.

The section served by this classification is seen to cover a vast area in which are located thousands of villages, towns, and cities, the transportation business of which is to a large extent affected by its operation. Excluding grain, coal, lumber, live stock, etc., which are principally carried at commodity rates, there yet remain many classes of merchandise, such as clothing, groceries, drugs, machinery, household effects, and innumerable other articles consumed in one form or another by the people, and which are covered by this classification.

Important changes have taken place resulting in lower freight charges to the public, the extent of which will be shown in the following table:

TABLE 4—COMPARISON OF THE VARIOUS CLASSIFICATIONS IN USE DURING THE PERIOD SINCE 1873 IN THE TERRITORY NOW COVERED BY THE WESTERN CLASSIFICATION NUMBER 15.

Year.	Total number of classifications.		Classified as L. C. L.; C. L. at same rating.		Classified as L. C. L. and C. L. quantities at lower rating.		Classified as C. L. and no rating for L. C. L.		Percentage of total number of classifications in each class.												Percentage in third class or higher.	Percentage lower than third class.
	No.	Per ct.	No.	Per ct.	No.	Per ct.	No.	Per ct.	*1	2	3	4	5	A	B	C	D	E	Special.	Total.		
1873.....	907	100.00	769	84.78	104	11.47	34	3.75	43.42	20.28	7.42	17.01	.....	6.33	1.38	1.98	2.18	.....	.....	100.00	71.12	28.88
1878.....	897	100.00	757	84.39	133	14.83	7	0.78	38.93	18.45	12.52	19.80	.....	2.91	3.79	1.46	2.14	.....	.....	100.00	69.90	30.10
1882.....	1,102	100.00	905	82.12	172	15.61	25	2.27	38.77	18.92	12.01	18.76	.....	3.53	5.65	2.28	0.08	.....	.....	100.00	69.70	30.30
1886.....	1,593	100.00	939	58.95	591	37.10	63	3.95	31.91	14.33	12.91	16.35	7.37	7.97	2.88	1.97	1.56	.....	2.75	100.00	59.15	40.85
1887.....	1,672	100.00	924	55.26	666	39.83	82	4.91	30.62	14.54	13.60	15.74	8.21	7.57	3.21	2.61	1.54	1.16	1.20	100.00	58.76	41.24
1893.....	3,658	100.00	1,642	44.89	1,731	47.32	285	7.79	28.39	12.69	12.82	16.92	10.65	9.22	3.16	2.19	1.91	0.93	1.12	100.00	53.90	46.10

NOTE.—1873, Chicago, Burlington and Quincy Railroad local freight classification, July 1, 1873.
1878, Chicago, Burlington and Quincy Railroad local freight classification, January 7, 1878.
1882, Chicago, Burlington and Quincy Railroad revised joint classification, January 1, 1882.
1886, Joint Western classification, February 1, 1886.
1887, Western classification April 1, 1887.
1893, Western classification, January 1, 1893.
* Percentage shown includes articles classified higher than first-class as 4 times 1, D 1, etc.

The present Western classification contains 3,658 separate descriptions of articles. As compared with the classifications of previous years shown by the table, a large increase is observed. This increase is due to the addition of new articles, and principally from extending the classifications to provide for the different forms of shipment of articles already classified. By the arrangement adopted for the table it may be readily seen to what extent articles now receiving a carload rate have increased. For example, in 1882 only 17.88 per cent of the articles were given a carload rating. At the present time 47.32 per cent of the articles may be taken at lower rates when in carload quantities than when in less than carload quantities. There has also been a large increase in the number of articles which are carried in carload quantities only, making a total of 55.11 percent assigned a carload classification.

The tendency to reduction in the classification is also prominently shown by a comparison of the percentages of the articles carried in the separate classes. The summary of these percentages given in the last two columns shows that 46.10 per cent of the articles are now found in classes lower than third class, while in 1882 only 30 per cent of the articles were in such classes. The latter proportion is upon a total of only about a third of the number of articles now covered by the classification.

As further illustrative of the operations of the Western classification the following table is inserted, showing for a number of important articles the changes in the classification from Chicago to Missouri River points, together with the changes in the rates for the same commodities. From this table it may be readily seen to what extent reductions have been made, both in the classification and in the rates.

Similar reductions have taken place in the through and local rates of all railroads throughout the territory covered by this classification.

COMPARISON OF CLASSIFICATION AND RATES.

TABLE 5.—COMPARISON OF CLASSIFICATION AND RATES EFFECTIVE DURING THE YEARS 1878, 1887, AND 1893, IN TERRITORY GOVERNED BY WESTERN CLASSIFICATION. RATES USED ARE IN CENTS PER 100 POUNDS FROM CHICAGO, ILL., TO SOUTHWESTERN MISSOURI RIVER POINTS, VIZ: KANSAS CITY, MO.; ATCHISON, KANS., AND LEAVENWORTH, KANS.

[In cents per 100 lbs.]

	1	2	3	4	5	A	B	C	D	E
January, 1878	85	70	40	30	25	27½	30	30	.....	.....
April, 1887	90	75	50	35	30	32½	29½	23	23	18
January, 1893	75	60	42	30	25	30	25	20	17½	14

Commodities.	Less than carloads						Carloads.					
	Class.			Rate.			Class.			Rate.		
	1878	1887	1893	1878	1887	1893	1878	1887	1893	1878	1887	1893
Agricultural implements as follows:												
Cultivators, iron or wood, K. D., flat, in bundles	D1	1	1	170	90	75	D1	A	A	170	82½	60
Fanning mills, K. D., flat, in bundles	D1	1	1	170	90	75	D1	A	A	170	82½	60
Harvesting machines (self-binding harvesters, K. D.)	1	1	3	85	90	42	1	A	A	85	82½	60
Plows, n. o. s., K. D., boxed or crated	3	2	3	40	75	42	3	A	A	40	82½	60
Ale and porter in wood	3	3	3	40	50	42	4	3	5	30	50	42
Alum	3	3	3	40	50	42	3	3	4	40	50	42
Asbestus, in barrels or casks	4	4	4	30	35	30	4	5	5	30	30	30
Asphaltum	4	4	4	30	35	30	C	C	D	30	30	15
Bags, burlap, gunny, or jute in bales	2	4	4	70	35	30	2	4	5	70	35	30
Baking powder, in tin boxes	2	3	3	70	50	42	2	4	4	70	35	30
Blacking, shoe, in boxes or kegs	2	2	2	70	75	60	2	3	4	70	75	60
Blue vitriol	3	3	4	70	75	30	3	4	5	70	35	30
Bluing	1	1	1	85	90	75	1	1	4	85	90	60
Borax	3	3	3	70	75	42	3	3	4	70	75	60
Brick, common, n. o. s.	4	4	4	30	35	30	D	E	E	..	35½	15
Brimstone, in barrels and hogsheads	4	4	4	30	35	30	4	4	C	30	30	30
Canned fish (not sardines), fruits, meats, soups, and vegetables, n. o. s.	3	4	4	40	35	30	4	5	5	30	30	30
Chloride of lime	3	3	3	40	50	42	3	3	D	40	50	15
Clay, common	4	4	4	30	35	30	4	E	E	30	16	15
Clothing, boxed	1	1	1	85	90	75	1	1	1	85	90	60
Coffee, green, in sacks	4	4	4	30	35	30	4	5	5	30	30	30
Crockery and earthenware, in hogsheads, casks, or crates	4	2	4	30	75	30	4	5	5	30	30	30
Dry goods, in boxes	1	1	1	85	90	75	1	1	1	85	90	60
Drugs and medicines	1	1	1	85	90	75	1	1	1	85	90	60
Eggs packed in barrels or boxes, prepaid	2	2	2	70	75	60	4	3	3	30	50	42
Farina	2	2	3	70	75	60	2	3	3	70	75	60
Felt for roofing	3	3	4	40	50	30	B	B	B	30	35½	15
Fertilizers, n. o. s	4	4	4	30	35	30	D	D	E	..	23	15
Fruit, dried or desiccated, n. o. s., in cans, boxes, barrels, or sacks released	2	3	3	70	50	42	2	4	4	70	35	30
Fruit, green, n. o. s	1	1	1	85	90	75	1	*3	3	85	46	30
Furniture, as follows:												
Bedsteads, n. o. s	2	2	2	70	75	60	2	A	A	70	82½	60
Chairs, common l. c. l., boxed	4	3	2	30	50	60	4	3	4	30	50	30
Mattresses	D1	1	1	170	90	75	1	1	1	85	90	75
Glass, window, common, not exceeding 86 inches	4	4	4	30	35	30	B	4	5	30	35	15
Glassware, n. o. s., in boxes, barrels, casks, or crates	3	1	2	40	90	60	3	3	4	40	90	30
Groceries, n. o. s	2	1	1	70	90	75	3	1	1	70	90	60
Hardware, n. o. s	2	2	2	70	75	60	2	2	2	70	75	60
Hides, green, in bundles	2	3	3	70	50	42	3	5	5	40	30	15
Hoops, hoop poles, C. L., loaded together	4	4	4	30	35	30	C	C	D	30	23	15
Husks, in bales	1	2	3	85	75	42	D	D	C	.....	23	15
Ice, prepaid	1	1	1	85	90	75	D	E	E	.....	16	15
India-rubber goods	1	1	1	85	90	75	1	1	1	85	90	60
Iron chain, loose (except cable)	2	2	2	70	75	60	2	2	2	70	75	60
Iron horse and mule shoes	4	4	4	30	35	30	B	5	5	30	30	30
Iron nails and spikes, n. o. s., in kegs	4	4	4	30	35	30	B	5	5	30	30	30

*15 per cent less than 3.

COMPARISON OF CLASSIFICATION AND RATES.

TABLE 5.—COMPARISON OF CLASSIFICATION AND RATES EFFECTIVE DURING THE YEARS 1878, 1887, AND 1893, ETC.—Continued.

[In cents per 100 lbs.]

Commodities.	Less than carloads.						Carloads.					
	Class.			Rate.			Class.			Rate.		
	1878	1887	1893	1878	1887	1893	1878	1887	1893	1878	1887	1893
Jute and jute butts, in bales	3	3	3	40	50	42	B	B	B	30	29½	25
Lard, in barrels or tierces	4	4	4	30	35	30	4	5	5	30	30	25
Leather, in rolls or boxes	2	2	2	70	75	60	2	2	4	70	75	30
Licorice mass, in boxes	2	2	3	70	75	42	2	2	4	70	75	30
Lime	4	4	4	30	35	30	C	C	C	20	23	20
Lime water in barrels	2	2	3	70	75	42	2	2	D	70	75	17½
Looms	D1	D1	D1	170	180	150	D1	D1	A	170	180	30
Malt	4	4	4	30	35	30	B	B	C	30	29½	20
Manila, in bales	3	3	2	40	75	60	3	B	B	40	29½	25
Marble dust	4	4	4	30	35	30	C	C	D	20	23	17½
Matting, cocoa and hemp	2	2	2	70	75	60	2	2	2	70	75	60
Nuts, hickory, in barrels	2	2	2	70	75	60	2	3	A	70	50	30
Oakum, in bales	3	3	3	40	50	60	B	B	B	30	29½	25
Oilcloth, floor, in boxes or crates under 12 feet in length	3	3	2	40	50	60	3	3	3	40	50	42
Paints in oil, white lead, or zinc, chemical paraffin, rubber, rubber in cans, boxed, or in kegs or barrels	4	4	4	30	35	30	5	5	5	25	30	25
Paper, building or roofing	3	3	4	40	50	30	B	B	B	30	29½	25
Paraffin wax, in barrels or boxes	2	2	2	70	75	60	2	2	4	70	75	30
Paste, flour, in barrels	4	4	4	30	35	30	4	4	5	30	30	25
Pipe, sewer, o. r. b	2	2	3	70	75	42	C	C	E	20	23	16
Pipe, sewer, in crates or hogsheads	2	2	4	70	75	30	C	C	3	20	23	42
Pitch	4	4	4	30	35	30	D	C	D	.....	23	17½
Plaster, land, in sacks or barrels	4	4	4	30	35	30	D	E	C	.....	16	20
Potatoes	2	4	4	70	35	30	A	C	C	37½	23	20
Presses, cider	2	2	2	70	75	60	2	2	A	70	75	30
Printers cases, in bundles	2	2	3	70	75	42	2	2	B	70	75	25
Pulp, wood	3	3	3	40	52	42	C	C	C	20	23	20
Pumps and tubina, wooden	3	3	3	40	50	42	A	A	B	37	32½	25
Raisins	2	2	2	70	75	60	3	3	3	40	50	42
Rice, in barrels	4	4	4	30	35	30	5	5	5	25	30	25
Rope, one-quarter inch or over	4	4	3	30	35	42	4	4	4	30	35	30
Saddlery, n. o. s., boxed	2	2	2	70	75	60	2	2	2	70	75	60
Sand, in bulk, c. l	4	4	4	30	35	30	D	E	E	.....	16	16
Sardines or shardines, domestic and imported, in boxes or kegs	2	2	2	70	75	60	2	2	5	70	75	25
Seeds, broom corn	1	3	3	85	50	42	4	5	A	30	30	30
Seeds, clover	2	3	3	70	50	42	4	5	A	30	30	30
Shot, in kegs, boxes, or gunnies	4	4	4	30	35	30	4	4	5	30	35	25
Slate, school	2	2	2	70	75	60	2	2	4	70	75	30
Slate, roofing	3	3	3	40	50	42	B	B	D	30	29½	17½
Soda, nitrate of	4	4	4	30	35	30	4	4	5	30	35	25
Soda, silicate of	4	4	4	30	35	30	4	5	5	30	30	25
Solder, in boxes	2	2	3	70	75	42	2	2	4	70	75	30
Starch, in boxes or barrels	3	3	3	40	50	42	4	4	5	30	35	25
Staves and heading	4	4	4	30	35	30	C	5	D	20	30	17½
Straw, baled and pressed	3	3	3	40	52	42	D	C	C	.....	23	20
Sugar, n. o. s., in boxes, barrels, or sacks	4	4	4	30	35	30	5	5	5	25	30	25
Sulphur, in sacks, barrels, or hogsheads	4	4	4	30	35	30	4	4	C.	30	35	20
Sirup, n. o. s., in barrels, kegs, or kits	4	4	4	30	35	30	5	5	5	25	30	25
Tallow	4	4	4	30	35	30	5	5	5	25	30	25
Tar, in barrels or casks	4	4	4	30	35	30	C	D	D	20	23	17½
Tile, drain, in crates or hogsheads	4	4	4	30	35	30	D	E	D	.....	16	17½
Tile, roofing	3	3	4	40	50	30	B	B	D	30	23	17½
Tin, pig or slab	2	2	2	70	75	60	2	2	4	70	75	30
Tinware, nested in boxes, barrels, or crates	2	2	2	70	75	60	2	2	4	70	75	30
Wire cloth	2	2	2	70	75	60	2	4	4	70	35	30
Wood, roofing	1	3	4	85	50	30	1	5	5	85	30	25
Wool, in sacks	1	2	2	85	75	60	1	2	2	85	75	60
Wool, compressed in bales	3	3	3	40	50	42	3	3	3	40	50	42
Yeast cakes, powder, or crumbs	3	3	3	40	50	42	3	3	4	40	50	30
Zinc, pig or slabs	4	4	4	30	35	30	5	5	5	25	30	25

SOUTHERN RAILWAY AND STEAMSHIP ASSOCIATION CLASSIFICATION.

The classification of this association applies throughout the territory south of the Ohio and Potomac rivers, and east of the Mississippi River. In this classification, as well as in the previous ones mentioned, there have been extensive reductions by the increase in the number of descriptions of articles carried thereunder. A summary of the number of such descriptions is given below for several years:

TABLE 6.—COMPARISON OF VARIOUS CLASSIFICATIONS ADOPTED BY THE SOUTHERN RAILWAY AND STEAMSHIP ASSOCIATION AND IN EFFECT DURING THE YEARS NAMED.

Years.	Total number of classifications.		Classified as L. C. L. and C. L. quantities at same rating.		Classified as L. C. L. and C. L. quantities at lower rating.		Classified as C. L. with no rating for L. C. L.		Percentage of total number of classifications in each class.															Summary.	
									Classes.																
	No.	Per cent.	No.	Per cent.	No.	Per cent.	No.	Per cent.	1	2	3	4	5	6	A	B	C	D	E	F	G	H	Special.	Total percentage third class and higher.	Total percentage lower than third class.
1876	833	100.00	840	94.07	47	5.26	6	0.67	32.02	16.91	12.34	15.11	14.26	3.30	1.06	.....	.....	.....	.....	.....	.....	.....	5.00	61.27	38.73
1880	983	100.00	829	84.33	117	11.90	37	3.77	26.18	12.55	14.55	15.00	19.45	6.64	0.55	0.45	0.09	1.18	0.18	0.18	0.18	0.09	2.73	53.28	46.72
1887	1,177	100.00	966	82.07	175	14.87	36	3.06	27.52	15.09	14.05	13.31	15.53	8.95	1.18	0.59	0.30	0.59	0.44	0.15	.....	0.08	2.22	56.66	43.34
1893	1,752	100.00	1,437	82.02	270	15.41	45	2.57	24.09	15.38	14.59	14.54	12.27	12.76	2.27	0.64	0.30	0.84	0.54	0.10	.....	0.05	1.63	54.06	45.94

From the foregoing it is shown that 82 per cent of the articles are now classified at less than carload quantities only, and that 17.98 per cent are assigned a carload rating. The latter proportion is observed to be relatively lower than for either of the other classifications for which data has been given. The rate reductions will be more fully illustrated by table following, which shows the changes between two important points in this section. The arrangement of the table permits of a comparison of changes in the classification and also of the rate changes.

COMPARISON OF CLASSIFICATION AND RATES.

TABLE 7.—COMPARISON OF CLASSIFICATION AND RATES EFFECTIVE DURING THE YEARS 1876, 1880, 1887, AND 1893, IN THE TERRITORY GOVERNED BY SOUTHERN RAILWAY AND STEAMSHIP ASSOCIATION. RATES USED ARE IN CENTS PER 100 POUNDS FROM LOUISVILLE, KY., TO ATLANTA, GA., AS FOLLOWS:

	1	2	3	4	5	6	A	B	C	D	E	F	G	H
1876	150	125	100	85	58	46	..	85	73	..	..	132	....	..
1880	119	104	89	76	61	46	28	47	43	38	52	81	138	71
1887	107	92	81	68	56	46	28	36	31	27	48	54	....	53
1893	107	92	81	68	56	46	28	35	28	24	48	48	....	53

Commodities.	Louisville, Ky., to Atlanta, Ga.							
	Class.				Rates in cents per 100 pounds.			
	1876	1880	1887	1893	1876	1880	1887	1893
Agricultural implements, C. L	A	.....	5	6	.....	.....	56	46
Agricultural implements, L. C. L., as follows:								
Harrow teeth, packed	1½	.....	4	6	225	.....	68	46
Shellers, corn, packed	1	2	1	2	150	104	107	92
Spreaders, manure, K. D	.....	.....	2	3	.....	.....	92	81
Babbitt, metal, C. L	2	4	4	4	125	76	68	68
Barley, L. C. L	5	D	6	D	58	38	46	24
Barrels, half barrels, and kegs, except ale and beer, empty, C. L	A	4	4	6	.....	76	68	46
Batting, cotton, N. O. S	D1	D1	D1	2	300	238	214	92
pressed in bales	D1	D1	D1	4	300	238	214	68
Bells, cast iron, L. C. L	2	2	2	3	125	104	92	81
C. L	2	2	2	5	125	104	92	56
Bluing liquid, in glass, packed	.....	1	1	2	.....	119	107	92
Blue, stone, in barrels or casks	4	5	5	6	85	61	56	46
Boilers, engines, or parts thereof, C. L	.....	.....	5	6	.....	.....	56	46
Boots, and in cases, C. L	1	1	1	2	150	119	107	92
Brimstone in barrels, L. C. L	4	5	3	5	85	61	81	56
Brooms, C. L	1	1	1	2	150	119	107	92
Burlaps	5	5	6	A	58	61	46	28
Canned goods, N. O. S., C. L	4	4	4	5	85	76	68	56
Cider, in wood, O. R. B. L., or spoiling	5	5	2	5	58	61	92	56
Coffee, green, in double sacks	5	6	6	6	58	46	46	46
Creameries, packed or wrapped	.....	.....	D1	3	.....	.....	214	81
Dry goods made wholly of cotton, viz: calicoes, canton flannels, cotton rope or twine, drills, etc., L. C. L	1	1	3	5	150	119	81	56
Drugs and medicine, N. O. S	1	1	1	1	150	119	107	107
Dry goods, same as above, C. L	1	1	4	5	150	119	68	56
Dye stuff, N. O. S., dry, in barrels	1	1	1	1	150	119	107	107
Excelsior, pressed in bales, C. L	3	3	4	6	100	89	68	46
Facings, coal and iron, in barrels, L. C. L	4	4	4	6	85	76	68	46
C. L	4	4	4	A	85	76	68	28
Felting	2	2	2	3	125	104	92	81
Fish, in cans, boxed, C. L	5	5	4	5	58	61	68	56
Fittings, iron pipe, in bundles, wired, L. C. L	.....	.....	D1	3	.....	.....	214	81
Foil, tin, in boxes	2	2	1	2	125	104	107	92
Freezers, ice cream	1	1	1	3	150	119	107	81
Fruit in cans, boxed, N. O. S. C. L	4	4	4	5	85	76	68	56
Fruit, green, N. O. S., prepaid, guaranteed	2	3	3	6	125	89	81	46
Fuse	1	1	D 1	1	150	119	214	107
Glassware, common, N. O. S. C. L	3	2	3	3	100	104	81	81
Glue, scrap	.....	.....	5	6	.....	.....	56	46
Grindstones, unmounted, C. L	5	5	6	A	58	61	46	28

TABLE 7.—COMPARISON OF CLASSIFICATION AND RATES EFFECTIVE DURING THE YEARS 1876, 1880, 1887, AND 1893, ETC.—Continued.

Commodities.	Louisville, Ky., to Atlanta, Ga.							
	Class.				Rates in cents per 100 pounds.			
	1876	1880	1887	1893	1876	1880	1887	1893
Groceries, N. O. S.	2	2	2	2	125	104	92	
Handles, N. O. S., boxed or crated	5	5	4	4	58	61	68	
Hardware, N. O. S., boxed	2	2	2	2	125	104	92	
Hessians, in original bales			6	A			46	
Hides, dry, in bales	3	3	3	4	100	89	81	
compressed	4	4	4	5	85	76	68	
green	4	4	4	5	85	76	68	
salted		5	5	6		61	56	
Hinges and nooks, in bbls. or casks	4	3	3	5	85	89	81	
Iron roofing, N. O. S	2	6	3	6	125	46	81	
Jellies, in cans, boxed, C. L	3	4	4	5	100	76	68	
Logwood, extract, in bbls. or casks	2	2	2	5	125	104	92	
Machinery, all kinds, C. L	4	5	5	6	85	61	56	
Matches, C. L	1	1	1	3	150	119	107	
Meal, oat, in boxes, L. C. L			2	4			92	
C. L			2	C			92	
Milk, condensed, boxed, C. L	4	4	4	5	85	76	68	
Moss, pressed in bales, C. L	3	3	4	4	100	89	68	
Pins, clothes, boxed, L. C. L	2	2	2	3	125	104	92	
C. L	2	2	2	5	125	104	92	
Plaster, calcined, C. L			6	A			46	
Plaster of Paris, C. L	5	5	6	A	58	61	46	
Plumbago (ship's option), in sacks, bbls. or box		5	5	6		61	56	
Radiators, steam, packed, L. C. L		4	3	4		76	81	
C. L		4	3	5		76	81	
Rice, rough	5	5	5	D	58	61	56	
Roots and herbs, value not over 6 cents per pound, L. C. L		3	4	5		89	68	
Roots and herbs, value not over 6 cents per pound, C. L		3	4	6		89	68	
Rope, N. O. S., L. C. L	4	3	3	4	85	89	81	
C. L	4	3	3	6	85	89	81	
bed cord, L. C. L	4	3	3	4	85	89	81	
C. L	4	3	3	6	85	89	81	
clothes line, L. C. L	2	3	3	4	125	89	81	
C. L	2	3	3	6	125	89	81	
wire	4	4	4	5	85	76	68	
Saddlery, horse collars, bark or shuck	2	2	2	4	125	104	92	
Seed, garden, C. L	1	2	2	4	150	104	92	
millet, C. L			3	6			81	
sorghum, C. L			2	6			92	
Shot, in kegs, or doubled sacked	4	5	5	6	85	61	56	
Slates, school, L. C. L	3	3	2	3	100	89	92	
C. L	3	3	2	4	100	89	92	
Starch, except corn starch	4	4	4	5	85	76	68	
Sulphur, in barrels, L. C. L	4	4	3	5	85	76	81	
Tallow, in barrels	4	5	B	B	85	61	56	
Tacks, iron, in kegs	3	3	2	5	100	89	92	
Tar, coal, in barrels, L. C. L	5	5	5	6	58	61	56	
Tin plate, in boxes, O. R. wet rust and damage to tin or packing, C. L	3	5	5	6	100	61	56	
Waters, mineral, in wood, C. L	5	4	5	5	58	76	56	
Wheat, cracked, in barrels, C. L			5	6			56	
boxes, L. C. L			2	5			92	
C. L			2	5			92	
Whiting, in barrels	4	5	5	6	85	61	56	
Wool, mineral			1	2			107	
Zinc, oxide		5	3	5		61	81	

CHANGES IN COMPETITIVE RATES.

The through or competitive traffic of the United States is divided into several well-defined sections, the rate-making basis of each of which, as well as the competition, is distinctive in many features. Briefly described these sections are as follows:

(1) The territory north of the Ohio and Potomac rivers and east of Chicago and the Mississippi River.

(2) The territory south of the Ohio and Potomac rivers and east of the Mississippi River.

(3) The territory west of Chicago and the Mississippi River.

(4) Competitive traffic to and from Pacific coast.

In each of these sections the traffic is divided into several general descriptions, distinguishable by the character of the commodities, the direction of movement, and the operation of freight associations. For each the more important rates have been selected and such data given as will most fully present the tendency of the changes.

CHANGES IN RATES ON TRAFFIC FROM EASTERN SEABOARD CITIES TO WESTERN COMPETITIVE POINTS, VIA ALL-RAIL ROUTES.

Before proceeding to a study of the changes in the rates as shown by the tables for this traffic it is important that the methods under which the schedules are constructed should be first explained.

Freight tariffs covering the traffic from the eastern seaboard territory to western points are established under the rules and regulations of the associations known as the Trunk Line and Central Traffic Associations, the former embraces the important roads leading from the eastern seaboard to Buffalo, Erie, Salamanca, Pittsburg, Parkersburg, and Wheeling. which points are known as the western termini of the trunk lines, and are also the eastern termini of roads in the Central Traffic Association. Under agreements of several years standing it has been the custom of these roads, forming by connections through lines from the seaboard to the West, to determine through rates from New York to Chicago, and to adopt such rates as the standard or basis for the construction of tariffs from other eastern cities and points adjacent thereto, which are directly or indirectly in competition for western business.

The principal seaboard cities are, New York, Boston, Philadelphia and Baltimore, and adjacent to each of these are important industries commanding for the points at which they are located equal transportation rates and facilities with the larger cities. For twenty years or more the rates from Boston to Western competitive points have been the same as from New York. From Philadelphia and Baltimore the rates are "agreed differentials" less than New York, the Baltimore rates being also lower than Philadelphia rates.

The westward traffic from the seaboard is carried principally under classified tariffs. The number of classes and the rates for each as now in effect are shown in the following table:

TABLE 8.—WEST BOUND RATES, SEABOARD CITIES TO CHICAGO.

	Classes in cents per 100 pounds.					
	1	2	3	4	5	6
From New York to Chicago	75	65	50	35	30	25
From Boston to Chicago	75	65	50	35	30	25
From Philadelphia to Chicago	69	59	45	33	28	24
Philadelphia lower than New York	6	6	5	2	2	1
From Baltimore to Chicago	67	57	47	33	27	22
Baltimore lower than New York	8	8	3	2	3	3
Baltimore lower than Philadelphia	2	2	1	1	1	1

It is not known what differentials were allowed Philadelphia and Baltimore prior to 1875. It is found that the differences in 1875 were as follows:

TABLE 9.—WEST BOUND DIFFERENTIALS.

	Classes in cents per 100 pounds.				
	1	2	3	4	5
Philadelphia (lower than New York rates)	7	7	6	4	3
Baltimore (lower than New York rates)	10	9	8	6	5

In 1876 the system of determining the differentials was from time to time modified. Fixed differentials were again reëstablished in 1877. Those shown in connection with the table of rates above have been continuously in effect since that time and may, for the purposes of studying the rates herein presented, be considered as applicable to the entire period covered.

Under existing arrangements the roads leading from the East publish rates and issue through bills of lading to all western points located on the railroads within the territory west of Buffalo and Pittsburg, east of the Mississippi and north of the Ohio rivers. The agreed rates and distances from New York to Chicago are taken as the standard, or 100 per cent. Through rates to the principal western cities, towns, and junction points in the territory above described are computed at a percentage of the New York-Chicago rates, based generally on the relative mileage of such points to the Chicago mileage. For example, rates New York to Detroit, Mich., are computed at 78 per cent of the rate New York to Chicago. In the same manner rates New York to Indianaplis, Ind., are 93 per cent of the New York-Chicago rates; Cincinnati, O., 87 per cent; Erie, Penn., 60 per cent; Columbus, O., 77 per cent; Cleveland, O., 71 per cent; St. Louis, Mo., 116 per cent. Thus the New York Chicago rates being at all times applied as the basis would, when changed, create relative changes in the rates to the other western points. In a similar manner the relation as to rates is maintained from the other eastern cities. When rates from New York to western points are changed like changes are made from Boston, Philadelphia, and Baltimore, and points receiving the same rates, the "differentials" as between the eastern cities being at all times maintained.

The general basis for the construction of tariffs as here described from New York and other eastern cities to Chicago and other western points indicated, has been practically the same for years. With this explanation the tables presenting rates from New York may be accepted as indicating the changes from Boston, Philadelphia and Baltimore.

STANDARD AND DIFFERENTIAL ROUTES.

An important element in the arrangement of rate schedules is the distinction made in the class of railroads or routes, by which certain routes are under agreement allowed to charge lower rates than others to the same points of destination. This is another feature of the "differential" plan, and has within recent years been extensively applied in the territory now under consideration. From each of the eastern cities there are two classes of roads, which are commonly termed the "standard lines" and the "differential lines." The standard lines are those which are conceded to possess advantages over their competitors by reason of shorter all-rail distance, and superior facilities arising from old and well-established connections and freight organizations. The differential lines are those which, on account of the longer routes and inadequate facilities, or owing to their through routes being partly by water, or from other disadvantages, cannot command, at even rates with the more direct lines an amount of tonnage which under customary methods for determining such matters would be considered a fair proportion. With a view to equalizing these conditions, and securing the permanency of the tariffs, as well as to bring about a fair distribution of the traffic, the "differential lines" are accorded somewhat lower rates than the "standard lines." At this time there are ten different lines leading from New York competing for western business. The rates upon classified traffic, New York to Chicago, as now established by each of these lines are as follows:

TABLE 10.—WEST BOUND RATES, NEW YORK TO CHICAGO BY VARIOUS ROUTES.

	Classes (in cents per 100 pounds).					
	1.	2.	3.	4.	5.	6.
Standard lines:						
New York Central and Hudson River Railroad, Pennsylvania Railroad, Baltimore and Ohio Railroad	75	65	50	35	30	25
Differential lines:						
New York, Lake Erie and Western Railroad, Lehigh Valley Railroad, West Shore Railroad, Delaware, Lackawanna and Western Railroad	70	61	47	33	29	24
New York, Ontario and Western Railroad	67	59	46	32	27	23
Chesapeake and Ohio Railway Route	65	57	44	31	26	22
Central Vermont Railroad Route	60	53	41	29	25	21

From other eastern cities similar arrangements exist, under which certain routes charge lower or differential rates.

The data presented by the tables following, covering all-rail rates, has been obtained from the older established companies whose records were found more complete in this respect; such companies are the standard lines under the system just described. Their rates are standard and are higher than those of the differential lines. This should be borne in mind when the tables are studied for the years subsequent to 1881, as since that time traffic of the different classes and commodities appearing in the tables was taken at lower rates when carried by any of

the roads known as the differential lines. A statement covering the changes of each line, if such data were procurable, would present more fully the actual changes which have taken place. It does not, however, appear necessary to enlarge the report on this account, as under the methods described for constructing the rates the changes from New York may be accepted as representing the changes from all other eastern cities, both for the standard and differential lines.

TABLE 11.—RATES OF FREIGHT ON CLASSIFIED TRAFFIC VIA ALL-RAIL ROUTES, NEW YORK TO CHICAGO.

NOTE.—The rates shown are those of the standard lines under the freight classifications from time to time prevailing. Rates from Boston have been the same. Philadelphia and Baltimore were lower by amount of differentials. Certain routes charge lower rates.

Date.	Classes (rates in cents per 100 pounds).						Date.	Classes (rates in cents per 100 pounds).					
	1.	2.	3.	4.	5.	Sp'l or 6.		1.	2.	3.	4.	5.	Sp'l or 6.
1862—Jan. 1	160	128	107	96	....	.....	1872—Oct. 14	125	119	85	65	50	.....
Apr. 7	140	117	85	50	....	.....	1873—Apr. 14	100	90	75	60	45	.....
Oct. 9	180	150	125	75	....	.....	June 11	75	70	60	45	35	.....
1863—May 14	160	117	94	55	....	.....	Aug. 11	40	40	30	20	20	.....
Oct. 5	160	128	107	96	....	.....	Aug. 13	27	27	18	18	17	.....
Nov. 23	180	150	124	85	....	.....	Dec. 1	75	70	60	45	35	.....
1864—July 26	200	166	111	85	....	.....	1874—Jan. 1	100	90	75	60	45	.....
Sept. 20	215	180	120	96	....	.....	Aug. 3	75	70	60	45	35	.....
1865—May 8	215	180	106	96	....	.....	1875—Jan. 20	100	90	75	60	45	.....
Oct. 16	215	180	90	82	....	.....	Mar. 17	75	70	60	45	35	.....
1866—Feb. 5	215	170	82	82	....	.....	Apr. 6	60	55	50	40	30	.....
Mar. 5	188	160	127	82	....	.....	May 18	40	40	35	25	25	.....
1867—Nov. 5	202	170	138	86	....	.....	Aug. 12	50	40	30	25	20	.....
1868—June 4	188	160	127	82	....	.....	Nov. 15	75	70	60	45	35	.....
Aug. 10	149	128	120	82	....	.....	Dec. 23	30	25	20	20	15	.....
Sept. 7	188	160	127	82	....	.....	1876—Jan. 10	75	70	60	45	35	.....
Oct. 1	70	60	55	50	....	.....	June 12	25	25	25	16	16	.....
Dec. 7	202	170	138	86	....	.....	July 28	15	15	15	10	10	.....
1869—Feb. 1	188	160	127	82	55	.....	Dec. 18	50	45	40	30	25	.....
Feb. 7	45	45	45	45	45	.....	1877—Mar. 12	75	70	60	45	35	.....
Mar. 15	160	160	127	82	55	.....	Oct. 8	75	70	60	40	....	.....
July 1	188	160	127	82	56	.....	Oct. 22	100	90	75	45	....	.....
Aug. 11	25	25	25	25	25	.....	Dec. 10	100	80	60	45	....	.....
Aug. 23	38	38	38	38	38	.....	1878—Feb. 15	75	60	50	40	....	.....
Aug. 30	43	43	43	43	43	.....	1881—Aug. 6	45	33	26	19	....	.....
Sept. 23	40	40	40	40	40	.....	Nov. 14	60	50	40	28	....	.....
Sept. 24	35	35	35	35	35	.....	1882—Jan. 24	45	33	26	19	....	.....
Oct. 4	50	50	50	50	50	.....	July 1	60	50	40	30	25	.....
Oct. 9	75	75	75	75	50	.....	Nov. 1	75	60	45	35	....	.....
Nov. 1	140	125	100	80	50	.....	1883—June 22	75	60	45	35	25	.....
Nov. 29	150	130	100	80	55	.....	1885—Jan. 26	50	40	30	25	18	.....
1870—Apr. 14	140	125	100	80	50	.....	Oct. 5	60	50	40	25	....	20
May 4	150	130	100	80	55	.....	Nov. 18	75	60	45	35	....	25
June 18	112	90	90	55	45	37	1887—Apr. 1	75	65	50	35	28	18
July 13	80	70	60	50	35	42	1888—Jan. 9	75	65	50	35	23	15
July 18	75	70	60	50	42	35	Mar. 5	75	65	50	35	20	18
July 21	65	60	60	50	42	35	Nov. 12	50	40	35	28	25	18
July 25	65	60	55	45	35	40	Dec. 17*	75	65	50	35	20	18
July 28	50	50	50	45	35	40							
Aug. 12	50	50	50	50	40	.....							
Aug. 22	100	90	70	55	45	.....							
Sept. 8	125	110	85	65	50	.....							
Nov. 28	160	130	100	65	50	.....							
Dec. 26	180	150	120	80	60	.....							
1871—Feb. 20	150	130	100	70	55	.....							
Mar. 7	100	90	70	55	45	.....							
May 18	75	65	50	45	37	.....							
June 1	100	90	70	55	45	.....							
July 8	75	65	50	45	37	.....							
July 28	45	45	45	45	32	.....							
Aug. 16	40	40	40	40	28	.....							
Aug. 21	35	35	35	35	26	.....							
Sept. 1	30	30	30	30	24	.....							
Nov. 27	100	90	70	55	45	.....							
Dec. 15	125	110	85	65	50	.....							
1872—Aug. 1	75	70	60	45	35	.....							
Sept. 1	125	110	85	65	50	.....							
Sept. 2	100	90	70	55	45	.....							

* In effect January 1, 1892.

By this table is shown the changes in the rates of the several classes of freight from New York to Chicago from 1862 to the present time. The freight charges between the two most important shipping centers in the country are here presented for thirty years—a longer period than has ever previously appeared in one table.

Absence of knowledge of the circumstances under which the varying rates of the different years were established precludes the adoption of any form of analysis which could be applied to the whole period. The character of the rates of certain years might be easily traced to the events of those years notably affecting the transportation interests; 1864 and 1865 were years near the end of and just after the war. In 1877 the Trunk Line Association was formed, and in 1887 the Act to Regulate Commerce was passed. For these years higher rates are observed.

During the summer months the all-rail lines are in competition with the lake-and-rail and canal-and-lake routes, to which competition has frequently been attributed the low all-rail rates; reductions by the latter at such times being necessary to retain a share of the business. While this may explain the changes in many of the years, it loses force when applied to such years as 1869–1875, and 1882, when the low rates were charged on dates on which the lake routes were closed.

In part only the foregoing may indicate the causes for changes in different years. Throughout the table may be recognized "war periods," which for the purpose of comparison it would be well to eliminate, if this could be correctly done, as only in this way may the changes in the normal rates of each class and commodity be shown. The rates of the table, however, represent figures at which an enormous traffic was carried, and although not in all cases appearing upon the published schedules they were obtained from reliable sources, are accurate, and should be permitted to remain in the tables for what they are worth.

It would be of interest to know the exact causes leading to the important fluctuations of each year, and it is to be regretted that the necessary information for this purpose is not at hand. For the present, at least, we shall have to be content with the reasons frequently advanced, viz, that when low rates prevailed the cause has been "active competition," or a "rate war," and when advanced they were simply "restored" to what was at the time considered the "normal basis."

While the extent of the variations are shown, the *tendency* of the changes may not readily be determined by the figures of Table 1, in the absence of knowledge as to what were the normal rates; the latter might be assumed to be highest rates or the rates prevailing for the longest period. While such a rule could well be applied to the rates of 1868, for example, when $2.02 first class per 100 pounds continued in effect for five months and was again restored after a period of lower rates, the same rule could not govern for 1869, during which there were thirteen changes and rates approaching the highest were in effect for an equal period.

The comparison which shall show the tendency of the changes must therefore be made upon a basis having the merits of equality. For this purpose the system of averages and percentages has been adopted, as shown by Tables 13 and 14.

While the presentation now made will be of interest, historically at least, it must be admitted that the tables furnish only a proximate basis for comparison, owing to the fact that in former years the methods of the carriers were such that the instances where the published tariff was charged were rather the exception than the rule. The devices for the secret lowering of rates to shippers commonly resorted to,

in previous years were innumerable. The secret rates or reductions by rebates of one road were generally based upon the actual or assumed rates of a competitor, and while the rates of all ultimately fell to the same level and became the open rate, for a time at least, charges were made by some differing materially from any rates of record.

Before passing to Tables 13 and 14 it may be interesting to notice some of the extreme changes appearing in the preceding table. We find the highest and lowest rates as follows:

TABLE 12.—HIGHEST AND LOWEST WEST BOUND RATES.

	Cents per 100 pounds.	
	Highest.	Lowest.
Class 1	1864 and 1865....$2.15	$0.15 in 1878
Class 2	1864 and 1865.... 1.80	.15 in 1878
Class 3	1867..... 1.38	.15 in 1878
Class 4	1864 and 1865.... .96	.10 in 1878
Class 5	1870..... .60	.10 in 1876

For the years prior to 1868 changes do not appear to have been made as often as in years following. In October, 1868, a reduction from $1.88 to 70 cents was made, the latter rate continuing until December 7, or two months. At no time in the previous six years had the first-class rate been lower than $1.49, and for most of this time the normal rate had been nearer $2. The year 1869 was conspicuous for sharp fluctuations, with a rate at the beginning of the year of $2.02 first class, which was reduced on February 1 to $1.88, and again on the 17th of the same month to 45 cents. The latter was equivalent to a decline of 75 per cent on first class and about 50 per cent on fourth class. By this schedule it will be seen that the same rate was charged upon all classes. Here for the first time it is noticed that the principles of classification are entirely set aside.

In March the rates were advanced as abruptly as they declined, and in July $1.88 was again reached. In August a rate of 25 cents was established for all classes, the lowest rate from 1862 to 1876. This rate (August, 1869) was advanced on different dates during August, September, October, and November, until the $1.50 basis was reached. In 1870 important reductions were made, followed by advances to the $1.80 basis in December, which was again reduced to $1.50 in February, 1871. During the summer of 1871 rates were very low and again the classification was ignored. In December the $1.25 basis was resumed, and after reductions, again adopted in October, 1872, continuing until April, 1873, after which date no higher basis than $1 was reached. In August, September, October, November, and part of December, 1873, a 27-cent first-class and 17-cent fifth-class basis was charged, which were unusually low rates. The rates for 1874 and 1875 were comparatively better.

The rates of 1876 were far below the rates known to have been charged at any time within the periods covered by the table. In 1877 the 75-cent basis was restored, and in October of the same year the classification was reduced to four classes. In December the $1 basis was established, which lasted until February 15, 1878, when the 75-cent basis was again made effective. These rates continued in effect until August, 1881, three years and a half, an unusually long period. The

rates of 1881 and 1882 were low; 1883 and 1884 the rates were higher and more steady; 1885 rates were low. From 1886 to the present time the class rates have been practically on the same basis. These comments relate principally to first class, and apply generally to all, although the class relations were not always maintained by the changes. At times there were only four classes and at others five or six. Lower rates usually followed the introduction of new classes.

TABLE 13.—AVERAGE RATES ON CLASSIFIED TRAFFIC, VIA ALL-RAIL ROUTES, NEW YORK TO CHICAGO.

Date.	Classes (rates in cents per 100 pounds).						Date.	Classes (rates in cents per 100 pounds).					
	1.	2.	3.	4.	5.	6 or spe'l.		1.	2.	3.	4.	5.	6 or spe'l.
1862	150	127	100	60	.....	.....	1881	65	51	42	33	.....	.....
1863	169	134	110	67	.....	.....	1882	56	44	35	28	.....	.....
1864	198	161	121	87	.....	.....	1883	75	60	45	35	.....	.....
1865	215	180	107	93	.....	.....	1884	75	60	45	35	25	.....
1866	193	163	120	82	.....	.....	1885	56	45	34	27	.....	.....
1867	190	162	129	83	.....	.....	1886	75	60	45	35	.....	25
1868	170	144	119	78	.....	.....	1887	75	64	49	35	.....	25
1869	132	122	100	72	.....	.....	1888	73	63	49	35	30	25
1870	130	113	90	69	50	.....	1889	75	65	50	35	30	25
1871	90	79	65	51	40	.....	1890	75	65	50	35	30	25
1872	118	104	81	62	48	.....	1891	75	65	50	35	30	25
1873	78	71	57	45	35	.....	1892	75	65	50	35	30	25
1874	90	83	69	54	41	.....							
1875	61	55	46	38	29	.....							
1876	43	41	36	28	22	.....							
1877	75	68	58	43	.....	.....							
1878	78	62	51	41	.....	.....							
1879	75	60	50	40	.....	.....							
1880	75	60	50	40	.....	.....							

This table gives the average rate of each class, New York to Chicago, for each year. These averages are obtained by multiplying the rates by the number of days each were in effect and dividing the sum of the multiples by the number of days in the year. This method is thought to be fairly accurate, and is undoubtedly the best available when it is impossible to obtain tonnage statistics showing the exact quantity of traffic carried at the separate rates. The next table will show the percentage or ratio of change in the yearly class averages given above. For this purpose the rates of 1867 are counted as 100, and the rates of the years following are expressed in percentages of the rates of 1867. Thus, in 1892 the first-class rate was 39.47 per cent of the rates of 1867; or, in other words, the same weight of freight may be now carried from New York to Chicago for 39 cents as was charged $1 in 1867.

SOUTHERN RAILWAY AND STEAMSHIP ASSOCIATION CLASSIFICATION.

The classification of this association applies throughout the territory south of the Ohio and Potomac rivers, and east of the Mississippi River. In this classification, as well as in the previous ones mentioned, there have been extensive reductions by the increase in the number of descriptions of articles carried thereunder. A summary of the number of such descriptions is given below for several years:

TABLE 6.—COMPARISON OF VARIOUS CLASSIFICATIONS ADOPTED BY THE SOUTHERN RAILWAY AND STEAMSHIP ASSOCIATION AND IN EFFECT DURING THE YEARS NAMED.

Years.	Total number of classifications.		Classified as L. C. L. and C. L. quantities at same rating.		Classified as L. C. L. and C. L. quantities at lower rating.		Classified as C. L. with no rating for L. C. L.		Percentage of total number of classifications in each class.															Summary.	
									Classes.																
	No.	Per cent.	No.	Per cent.	No.	Per cent.	No.	Per cent.	1	2	3	4	5	6	A	B	C	D	E	F	G	H	Special.	Total percentage third class and higher.	Total percentage lower than third class.
1876	833	100.00	840	94.07	47	5.26	6	0.67	32.02	16.91	12.34	15.11	14.26	3.30	1.06	.....	.....	.....	.....	.....	.....	.....	5.00	61.27	38.73
1880	983	100.00	829	84.33	117	11.90	37	3.77	26.18	12.55	14.55	15.00	19.45	6.64	0.55	0.45	0.09	1.18	0.18	0.18	0.18	0.09	2.73	53.28	46.72
1887	1,177	100.00	966	82.07	175	14.87	36	3.06	27.52	15.09	14.05	13.31	15.53	8.95	1.18	0.59	0.30	0.59	0.44	0.15	.....	0.08	2.22	56.66	43.34
1893	1,752	100.00	1,437	82.02	270	15.41	45	2.57	24.09	15.38	14.59	14.54	12.27	12.76	2.27	0.64	0.30	0.84	0.54	0.10	.....	0.05	1.63	54.06	45.94

The proportions carried in the respective classes during these years were as follows:

TABLE 16.—PER CENT OF TONNAGE IN EACH CLASS.

Class.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.
1	30.4	31.3	26.4	25.1	23.1	29.5	25.6	24.8	23.3	13.9	19.3	22.2	21.0	19.4	19.9
2	6.9	7.2	6.7	6.4	6.2	8.0	7.6	7.1	7.9	7.5	7.2	6.9	6.4	5.7	5.4
3	4.8	5.0	4.4	5.1	4.2	4.9	4.1	4.2	5.2	8.1	10.4	12.8	12.3	11.4	11.3
4	57.9	48.7	50.1	53.7	56.9	42.3	32.9	29.3	20.9	14.1	13.5	13.0	12.7	11.1	10.4
5	0.0	6.5	10.6	9.7	7.6	14.8	29.8	34.6	42.7	16.1	9.2	7.8	10.0	9.1	9.6
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	.....	35.3	40.4	37.3	37.6	43.3	43.4
Special	0.0	1.3	1.8	0.0	0.0	0.0	0.0	0.0	.....	.....	.....	.....	.....	.....	.....
	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

The principal purpose served by the introduction of the latter table is to point out that about sixty per cent of the tonnage is now carried in the fourth, fifth, and sixth classes, the rates of which are 35, 30, and 25 cents per 100 pounds, respectively, New York to Chicago. Prior to 1886 no considerable number of articles were permanently assigned to fifth and sixth classes; they embraced usually a few commodities which had been assigned a special rate, which rate was seldom lower than 35 cents per 100 pounds, and often higher. It has been shown from an analysis of the freight classifications that 47 per cent of the descriptions in the classification now applying westward from the seaboard are found in the fourth and lower classes, and the tonnage of the same classes from New York is 60 per cent of the total traffic. The traffic represented by these figures now permanently receive lower rates than in 1886. Similar results would appear from an analysis of the rates and classification applying from other seaboard cities to the West.

The foregoing tables of rates, it will be noticed, refer to the yearly averages of the different classes. In order to ascertain the changes upon the entire traffic of all classes from New York, the following table has been compiled, by which is shown the monthly average rates for each year on the traffic from New York from 1878 to 1892, inclusive, and the yearly averages are given for the years 1886 to 1892, inclusive. These average rates, it should be explained, are arrived at on the assumption that all traffic from New York was destined to Chicago, and carried at the prevailing tariff rates for the years given. This rule is applied throughout the table, and when it is recalled that rates to all destinations east of the Mississippi River are made proportionate to the New York-Chicago rate, results sufficiently accurate are obtained to illustrate the charges for all traffic from the seaboard to western points other than Chicago, to which rates are made by the trunk lines.

Especial attention is directed to this table, as it contains rates representative of a traffic more extensive than is carried under any other set of competitive rates in the United States.

TABLE 17.—AVERAGE RATES PER HUNDRED POUNDS CHARGED TO CHICAGO, ILL., DURING EACH MONTH, 1878 TO 1892, INCLUSIVE, UPON FREIGHT FROM NEW YORK, N. Y., TO POINTS BEYOND TRUNK LINE TERMINI.

Month.	Year (average rate in cents per 100 pounds).														
	1878	1879	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	1890	1891	1892
January	64	58	47	49	28	47	45	40	43	40	45	45	43	43	41
February	60	55	49	51	26	49	47	30	45	40	47	45	43	45	43
March	55	55	51	51	26	49	47	30	45	38	47	43	40	41	43
April	53	55	51	49	26	47	45	30	45	45	40	43	40	39	42
May	51	53	47	49	26	47	43	30	43	40	43	45	43	40	41
June	51	53	47	47	26	45	43	23	40	43	40	43	43	40	39
July	51	53	49	49	38	45	45	23	43	43	40	47	45	42	41
August	53	55	53	30	38	47	47	26	43	40	43	45	43	43	43
September	53	55	53	26	38	47	45	23	43	40	40	43	43	42	43
October	53	49	51	26	43	45	45	33	40	40	43	45	45	42	43
November	51	47	51	26	49	45	45	38	38	40	38	43	43	41	42
December	51	45	49	26	47	43	45	45	40	43	33	43	43	42	41
Average yearly rate	53.7	51.9	49.9	37.5	29.4	47.7	44.6	30.1	42.6	41.0	41.0	43.7	42.9	41.4	41.5

Applying to a number of commodities the same plan for computation of averages and percentages as shown above by Tables 13 and 14 for classes, similar results as to the extent of the reductions are obtained. Tables 18 and 19 next following present the yearly average charges and percentages for a number of selected articles; reference to each will show the rates to be upon a much lower basis in the more recent years than formerly. It will also be noticed that the majority have now been assigned a separate car-load rating, where in previous years this distinction was not made and the the shipments in carload quantities were taken at higher rates. An extended analysis of the changes in each article appears unnecessary, as the tables fully present the reductions.

TABLE 18.—AVERAGE RATES ON VARIOUS COMMODITIES,

Year.	Commodities (rates in cents per 100 pounds).																	
	Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar.	
										Castile and fancy.		Common.						
				Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.
1867	190	190	190	190	190	190	190	162	162	162	162	129	129	162	162	190	83	83
1868	170	170	170	170	170	170	170	....	....	144	144	78	78	122	122	170	....	....
1869	132	132	132	132	132	132	132	....	....	122	122	72	72	100	100	132	....	....
1870	130	130	130	130	130	130	130	....	....	113	113	69	69	90	90	130	....	....
1871	90	90	90	90	90	90	90	40	40	79	79	51	51	65	65	90	40	40
1872	118	118	118	118	118	118	118	48	48	104	104	62	62	81	81	118	48	48
1873	78	78	78	78	78	78	78	35	35	71	71	45	45	57	57	78	35	35
1874	90	90	90	90	90	90	90	41	41	82	82	54	54	69	69	90	41	41
1875	61	61	61	61	61	61	61	28	28	55	55	38	38	46	46	61	28	28
1876	43	43	43	43	43	43	43	22	22	41	41	26	26	36	36	43	22	22
1877	75	75	75	75	75	75	63	35	35	68	68	42	42	52	52	75	35	35
1878	78	78	78	78	78	78	41	41	41	62	62	41	41	41	41	78	41	41
1879	75	75	75	75	75	75	40	40	40	60	60	40	40	40	40	75	40	40
1880	75	75	75	75	75	75	40	40	40	60	60	40	40	40	40	75	40	40
1881	65	65	65	65	65	65	33	33	33	51	51	33	33	33	33	65	33	33
1882	56	56	56	56	56	56	26	26	26	44	44	26	26	26	26	56	24	24
1883	75	75	75	75	75	75	35	35	35	60	60	35	35	35	35	75	30	30
1884	75	75	75	75	75	75	35	35	35	60	60	35	35	35	35	75	25	25
1885	56	56	56	56	56	56	27	27	27	45	45	27	27	27	27	56	20	20
1886	75	66	75	75	75	75	35	35	35	60	60	35	35	35	35	75	25	25
1887	75	50	75	75	67	56	31	35	27	64	64	35	31	35	27	75	33	25
1888	73	49	73	73	63	49	30	25	25	63	63	35	30	35	25	73	33	25
1889	75	50	75	75	65	50	30	35	25	65	65	35	30	35	25	75	35	25
1890	75	50	75	75	65	50	30	35	25	65	65	35	30	35	25	75	35	25
1891	75	50	75	75	65	35	26	35	25	49	44	35	26	35	25	75	35	25
1892*	75	50	75	75	65	30	25	35	25	35	25	35	25	35	25	75	35	24

*Eight months, to August 31, inclusive.

VIA ALL-RAIL ROUTES, NEW YORK TO CHICAGO.

Commodities (rates in cents per 100 pounds).																							
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging		Leather		Lead.		Nails.		Hardware.	Agricultural implements		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
83	83	83	83	162	190	162	162	162	162	162	162	83	83	83	83	162	190	190	162	162	129	129
....	....	78	78	144	170	144	144	144	144	144	144	78	78	78	78	144	170	170	144	144	119	114
....	....	72	72	122	132	....	....	122	122	122	122	72	72	72	72	122	132	132	122	122	100	100
....	....	....	....	113	130	....	....	113	113	111	111	70	70	69	69	113	130	130	118	118	90	90
51	51	51	51	79	90	55	55	79	79	79	79	44	44	51	51	79	90	90	79	79	65	65
62	62	57	57	104	118	91	91	104	104	104	104	48	48	62	62	104	118	118	104	104	81	81
45	45	35	35	71	78	35	35	71	71	71	71	35	35	45	45	71	.....	62	71	71	57	57
54	54	41	41	82	90	41	41	82	82	82	82	41	41	54	54	82	.....	54	82	82	69	69
47	47	29	29	55	61	33	33	55	55	55	55	29	29	38	38	55	.....	38	55	55	46	46
26	26	22	22	41	43	22	22	41	41	41	41	22	22	26	26	41	.....	26	41	41	26	26
42	42	35	35	68	75	35	35	59	59	68	68	35	35	42	42	68	.....	41	68	59	52	52
41	41	41	41	62	78	41	41	41	41	62	62	41	41	41	41	62	.....	41	62	41	41	41
40	40	40	40	60	75	40	40	40	40	60	60	40	40	40	40	60	.....	40	60	40	40	40
40	40	40	40	60	75	40	40	40	40	60	60	40	40	40	40	60	.....	40	60	40	40	40
33	33	33	33	51	65	33	33	33	33	51	51	33	33	33	33	51	.....	33	51	33	33	33
24	24	26	26	44	56	26	26	26	26	44	44	26	26	26	26	44	.....	26	44	26	26	26
30	30	35	35	60	75	35	35	35	35	60	60	35	35	35	35	60	.....	36	60	35	35	35
25	25	35	35	60	75	35	35	35	35	60	60	35	35	35	35	60	.....	36	60	35	25	25
20	20	27	27	45	56	27	27	27	27	45	45	27	27	27	27	45	.....	27	45	27	27	27
25	25	35	35	60	75	35	35	35	35	60	60	35	35	35	35	60	.....	35	60	35	25	25
33	29	35	35	64	75	35	31	46	35	52	41	35	27	35	31	64	.....	31	41	31	46	31
35	30	35	25	63	73	35	30	49	35	49	35	35	25	35	30	63	49	30	35	30	49	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	31	26	65	50	30	35	24	50	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	30	25	65	50	30	35	25	50	30

TABLE 19.—PERCENTAGES OF THE YEARLY AVERAGE RATES ON VARIOUS

Year.	Commodities (rates in cents per 100 pounds).								
	Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffins.	
				Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
1867	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
1868	89.47	89.47	89.47	89.47	89.47	89.47	89.47	.....	.....
1869	89.47	89.47	89.47	89.47	89.47	89.47	89.47	.....	.....
1870	68.42	68.42	68.42	68.42	68.42	68.42	68.42	.....	.....
1871	47.37	47.37	47.37	47.37	47.37	47.37	47.37	24.00	24.00
1872	62.11	62.11	62.11	62.11	62.11	62.11	62.11	29.63	29.63
1873	41.05	41.05	41.05	41.05	41.05	41.05	41.05	21.60	21.60
1874	47.37	47.37	47.37	47.37	47.37	47.37	47.37	25.31	25.31
1875	32.11	32.11	32.11	32.11	32.11	32.11	32.11	17.28	17.28
1876	22.63	22.63	22.63	22.63	22.63	22.63	22.63	12.58	12.58
1877	39.47	39.47	39.47	39.47	39.47	39.47	33.16	21.60	21.60
1878	41.05	41.05	41.05	41.05	41.05	41.05	21.58	25.31	25.31
1879	39.47	39.47	39.47	39.47	39.47	39.47	21.05	24.00	24.00
1880	39.47	39.47	39.47	39.47	39.47	39.47	21.05	24.00	24.00
1881	34.21	34.21	34.21	34.21	34.21	34.21	17.37	20.37	20.37
1882	29.47	29.47	29.47	29.47	29.47	29.47	13.68	16.65	16.65
1883	39.47	39.47	39.47	39.47	39.47	39.47	18.42	21.60	21.60
1884	39.47	39.47	39.47	39.47	39.47	39.47	18.42	21.60	21.60
1885	29.47	29.47	29.47	29.47	29.47	29.57	14.06	16.67	16.67
1886	39.47	34.74	39.47	39.47	39.47	39.47	18.42	21.60	21.60
1887	39.47	26.32	39.47	39.47	35.26	29.47	16.32	21.60	18.67
1888	38.42	25.79	38.42	38.42	33.16	25.79	15.79	21.60	15.42
1889	39.47	26.32	39.47	39.47	34.21	26.32	15.79	21.60	15.42
1890	39.47	26.32	39.47	39.47	34.21	26.32	15.79	21.60	15.42
1891	39.47	26.32	39.47	39.47	34.21	18.42	13.68	21.60	15.42
1892	39.47	26.32	39.47	39.47	34.21	15.79	13.16	21.60	15.42

Year.	Commodities (rates in cents per 100 pounds).									
	Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.	
	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
1867	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
1868	93.98	93.98	88.89	89.47	88.89	88.89	88.89	88.89	88.89	88.89
1869	86.75	86.75	75.31	69.47	.....	.....	75.31	75.31	75.31	75.31
1870	.....	.....	69.75	68.42	.....	.....	69.75	69.75	69.52	69.52
1871	61.45	61.45	48.77	47.37	33.95	33.95	48.77	48.77	48.77	48.77
1872	68.67	68.67	64.20	62.11	56.17	56.17	64.20	64.20	64.20	64.20
1873	42.17	42.17	43.83	41.05	21.60	21.60	43.83	43.83	43.83	43.83
1874	49.40	49.40	50.62	47.37	25.31	25.31	50.62	50.62	50.62	50.62
1875	34.94	34.94	33.95	32.11	20.37	20.37	33.95	33.95	33.95	33.95
1876	26.51	26.51	25.31	22.63	13.58	13.58	25.31	25.31	25.31	25.31
1877	42.17	42.17	41.98	39.47	21.60	21.60	36.42	36.42	41.98	41.98
1878	49.40	49.40	38.27	41.05	35.31	35.31	35.31	35.31	38.27	38.27
1879	48.19	48.19	37.04	39.47	24.69	24.69	24.69	24.69	37.04	37.04
1880	48.19	48.19	37.04	39.47	24.69	24.69	24.69	24.69	37.04	37.04
1881	39.76	39.76	31.48	34.21	20.37	20.37	20.37	20.37	31.48	31.48
1882	31.33	31.33	27.16	29.47	16.05	16.05	16.05	16.05	27.16	27.16
1883	42.17	42.17	37.04	39.47	21.60	21.60	21.60	21.60	37.04	37.04
1884	42.17	42.17	37.04	39.47	21.60	21.60	21.60	21.60	37.04	37.04
1885	32.53	32.53	27.78	29.47	16.67	16.67	16.67	16.67	27.78	27.78
1886	42.17	42.17	37.04	39.47	21.60	21.60	21.60	21.60	37.04	37.04
1887	42.17	42.17	39.51	39.47	21.60	19.14	28.40	21.60	32.10	35.71
1888	42.17	30.12	38.89	38.42	21.60	18.52	30.25	21.60	30.25	21.60
1889	42.17	30.12	40.12	39.47	21.60	18.52	30.86	21.60	30.86	21.60
1890	42.17	30.12	40.12	39.47	21.60	18.52	30.86	21.60	30.86	21.60
1891	42.17	30.12	40.12	39.47	21.60	18.52	30.86	21.60	30.86	21.60
1892	42.17	30.12	40.12	39.47	21.60	18.52	30.86	21.60	30.86	21.60

COMMODITIES, VIA ALL-RAIL ROUTES, NEW YORK TO CHICAGO.

Commodities (rates in cents per 100 pounds).										
Soap.				Starch.		Tea.	Sugar.		Molasses.	
Castile and fancy.		Common.								
Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.
100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
88.89	88.89	60.47	60.47	75.31	75.31	89.47	.....	.....	.....	.....
75.31	75.31	55.81	55.81	61.73	61.73	69.47	.....	.....	.....	.....
69.75	69.75	53.49	53.49	55.56	55.56	68.42	.....	.....	.....	.....
48.77	48.77	39.53	39.53	40.12	40.12	47.37	48.19	48.19	61.45	61.45
64.20	64.20	48.06	48.06	50.00	50.00	62.11	57.83	57.83	74.70	74.70
43.83	43.83	34.88	34.88	35.19	39.19	41.05	42.17	42.17	54.22	54.22
50.62	50.62	41.86	41.86	42.59	42.59	47.37	49.40	49.40	65.06	65.06
33.95	33.95	29.46	49.46	28.40	28.40	32.11	33.73	33.73	56.68	56.68
25.31	29.31	20.16	20.16	22.22	22.22	22.63	26.51	26.51	31.33	31.33
41.98	41.98	32.56	32.56	32.10	32.10	39.47	42.17	42.17	50.60	50.60
38.27	38.27	31.78	31.78	25.31	25.31	41.05	49.40	49.40	49.40	49.40
37.04	37.04	31.01	31.01	24.69	24.69	39.47	48.19	48.19	48.19	48.19
37.04	37.04	31.01	31.01	24.69	24.69	39.47	48.19	48.19	48.19	48.19
31.48	31.48	25.58	25.58	20.37	20.37	34.21	39.76	39.76	39.76	39.76
27.16	27.16	20.16	20.16	16.05	16.05	29.47	28.92	28.92	28.92	28.92
37.04	37.04	27.13	27.13	21.60	21.60	39.47	36.14	36.14	36.14	36.14
37.04	37.04	27.13	27.13	21.60	21.60	39.47	30.12	30.12	30.12	30.12
27.78	27.78	20.98	20.98	16.67	16.67	29.47	24.10	24.10	24.10	24.10
37.04	37.04	27.13	27.13	21.60	21.60	39.47	30.12	30.12	30.12	30.12
39.51	39.51	27.13	24.03	21.60	16.67	39.47	39.76	30.12	39.76	34.94
38.89	38.89	27.13	23.26	21.60	15.43	38.42	42.17	30.12	42.17	36.14
40.12	40.12	27.13	23.26	21.60	15.43	39.47	42.17	30.12	42.17	36.14
40.12	40.12	27.13	23.26	21.60	15.43	39.47	42.17	30.12	42.17	36.14
30.25	27.16	27.13	23.26	21.60	15.43	39.47	42.17	30.12	42.17	36.14
27.13	15.43	27.13	23.26	21.60	15.43	39.47	42.17	28.92	42.17	36.14

Commodities (rates in cents per 100 pounds).										
Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
93.98	93.98	93.98	93.98	88.89	89.47	89.47	88.89	88.89	92.25	92.25
86.75	86.75	86.75	86.75	75.31	69.47	69.47	75.31	75.31	77.52	77.52
84.34	84.34	83.13	83.13	69.75	68.42	68.42	69.75	69.75	69.77	69.77
53.01	53.01	61.45	61.45	48.77	47.37	47.37	48.77	48.77	50.39	50.39
57.83	57.83	74.70	74.70	64.20	62.11	62.11	64.20	64.20	62.79	62.79
42.17	42.17	54.22	54.22	43.83	.....	32.63	43.83	43.83	44.19	44.19
49.40	49.40	65.06	65.06	50.62	.....	28.42	50.62	50.62	53.49	53.49
34.94	34.94	45.78	45.78	33.95	.....	20.00	33.95	33.95	35.66	35.66
26.51	26.51	31.33	31.33	25.31	.....	13.68	25.31	25.31	27.91	27.91
42.17	42.17	50.60	50.60	41.98	.....	21.58	41.98	36.42	40.31	40.31
49.40	49.40	49.40	49.40	38.27	.....	21.58	38.27	25.31	31.78	31.78
48.19	48.19	48.19	48.19	37.04	.....	21.05	37.04	24.69	31.01	31.01
48.19	48.19	48.19	48.19	37.04	.....	21.05	37.04	24.69	31.01	31.01
39.76	39.76	39.76	39.76	31.48	.....	17.37	31.48	20.37	25.58	25.58
31.33	31.33	31.33	31.33	27.16	.....	13.68	27.16	16.05	20.16	20.16
42.17	42.17	42.17	42.17	37.04	.....	18.95	37.04	21.60	27.13	27.13
42.17	42.17	42.17	42.17	37.04	.....	18.95	37.04	21.60	27.13	27.13
32.53	32.53	32.53	32.53	27.78	.....	14.06	27.78	16.67	20.93	20.93
42.17	42.17	42.17	42.17	37.04	.....	18.42	37.04	21.60	27.13	27.13
42.17	32.53	42.17	37.35	39.51	.....	16.32	25.31	19.14	35.66	24.03
42.17	30.12	42.17	36.14	38.89	25.79	15.79	21.60	18.52	37.98	23.26
42.17	30.12	42.17	36.14	40.12	26.32	15.79	21.60	18.52	38.76	23.26
42.17	30.12	42.17	36.14	40.12	26.32	15.79	21.60	18.52	38.76	23.26
42.17	30.12	37.35	31.33	40.12	26.32	15.79	21.60	20.99	38.76	23.26
42.17	30.12	36.14	30.12	40.12	26.32	15.79	21.00	21.60	38.76	23.26

Next following will be presented numerous tables showing changes in rates on important commodities from New York to a number of western competitive points. These points have been selected principally on account of their importance as commercial and distributing trade centers, and to which the greater portion of the westward traffic from the seaboard cities is carried.

The commodities given have been carefully selected and are intended to embrace (1) those representative of different commercial classes, (2) those of universal use, and (3) those which have been carried in practically the same form throughout the entire period covered. The shipping terms as now employed for many classified articles are quite unlike those of 1867, and the frequent changes in the nomenclature of the freight classifications have made it very difficult to trace the rating for many of the articles; but so far as has been possible the rates shown throughout the tables cover the same form of package, or represent the standard commercial package from time to time prevailing for these articles.

The dates appearing at the left hand in the tables indicate the dates on which a change was made in the rate itself of one or more articles or a change in the classification of an article resulting in a change in the rate. The headlines are self-explanatory, columns being provided for less than carloads and carload rates for such articles as are carried in both forms. Where the figures are omitted and "special rate" inserted the records of the railroads failed to show the actual rate charged. In such cases the rate may be assumed to have been lower than the preceding rate shown. In the *parlance* of the railroads in former years the term "special rate" generally implied a *secret* rate, which was often omitted from the schedules and known only to the company and favored patrons.

TABLE 20.—RATES OF FREIGHT, ALL RAIL.

DISTANCE VIA SHORTEST ROUTE.—From New York, 912 miles;

[NOTE.—Where the rates are not specifically described as applying on less than

Date.		Commodities (rates in cents per 100 pounds).																	
					Furniture.		Stoves.		Coffee.		Soap.				Starch.			Sugar	
											Castile and fancy.		Common.						
		Dry goods.	Cotton piece goods.	Boots and shoes	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Tea.	Less than carloads.	Carloads.
1867—Jan.	1	188	188	188	188	188	188	188	160	160	160	160	127	127	160	160	188	88	88
Nov.	5	202	202	202	202	202	202	202	170	170	170	170	138	138	170	170	202	88	88
1868—Feb.	4	202	202	202	202	202	202	202	Special rate.		170	170	86	86	138	138	202	Special rate.	
June	4	188	188	188	188	188	188	188	..do....		160	160	82	82	127	127	188	..do....	
Aug.	10	149	149	149	149	149	149	149	..do....		128	128	82	82	120	120	149	..do....	
Sept.	7	188	188	188	188	188	188	188	160	160	160	160	82	82	127	127	188	..do....	
Oct.	1	70	70	70	70	70	70	70	Special rate.		60	60	50	50	55	55	70	..do....	
Dec.	7	202	202	202	202	202	202	202	..do....		170	170	86	86	138	138	202	..do....	
1869—Feb.	1	188	188	188	188	188	188	188	..do....		160	160	82	82	127	127	188	..do....	
Feb.	17	45	45	45	45	45	45	45	..do....		45	45	45	45	45	45	45	..do....	
Mar.	15	160	160	160	160	160	160	160	..do....		160	160	82	82	127	127	160	..do....	
Apr.	12	160	160	160	160	160	160	160	..do....		160	160	82	82	127	127	160	..do....	
July	1	188	188	188	188	188	188	188	..do....		160	160	82	82	127	127	188	..do....	
Aug.	11	25	25	25	25	25	25	25	..do....		25	25	25	25	25	25	25	..do....	
Aug.	23	38	38	38	38	38	38	38	..do....		38	38	38	38	38	38	38	..do....	
Aug.	30	43	43	43	43	43	43	43	..do....		43	43	43	43	43	43	43	..do....	
Sept.	22	40	40	40	40	40	40	40	..do....		40	40	40	40	40	40	40	..do....	
Sept.	24	35	35	35	35	35	35	35	..do....		35	35	35	35	35	35	35	..do....	
Oct.	4	50	50	50	50	50	50	50	..do....		50	50	50	50	50	50	50	..do....	
Oct.	9	75	75	75	75	75	75	75	..do....		75	75	75	75	75	75	75	..do....	
Nov.	1	140	140	140	140	140	140	140	..do....		125	125	80	80	100	100	140	..do....	
Nov.	29	150	150	150	150	150	150	150	..do....		130	130	80	80	100	100	150	..do....	
1870—Apr.	14	140	140	140	140	140	140	140	..do....		125	125	80	80	100	100	140	..do....	
May	4	150	150	150	150	150	150	150	..do....		130	130	80	80	100	100	150	88	88
May	7	150	150	150	150	150	150	150	..do....		130	130	80	80	100	100	150	88	88
June	18	112	112	112	112	112	112	112	..do....		90	90	55	55	90	90	112	88	88
July	13	80	80	80	80	80	80	80	..do....		70	70	50	50	60	60	80	Special rate.	
July	18	75	75	75	75	75	75	75	..do....		70	70	50	50	60	60	78	..do....	
July	21	65	65	65	65	65	65	65	..do....		60	60	50	50	60	60	65	..do....	
July	25	65	65	65	65	65	65	65	..do....		60	60	45	45	55	55	65	..do....	
July	28	50	50	50	50	50	50	50	..do....		50	50	45	45	50	50	50	..do....	
Aug.	12	50	50	50	50	50	50	50	..do....		50	50	50	50	50	50	50	..do....	
Aug.	23	100	100	100	100	100	100	100	..do....		90	90	55	55	70	70	100	..do....	
Sept.	8	125	125	125	125	125	125	125	..do....		110	110	65	65	85	85	125	..do....	
Nov.	28	160	160	160	160	160	160	160	..do....		130	130	65	65	100	100	160	..do....	
Dec.	26	180	180	180	180	180	180	180	60	60	150	150	80	80	120	120	180	60	60
1871—Feb.	20	150	150	150	150	150	150	150	55	55	130	130	70	70	100	100	150	55	55
Mar.	7	100	100	100	100	100	100	100	45	45	90	90	55	55	70	70	100	45	45
May	18	75	75	75	75	75	75	75	37	37	65	65	45	45	50	50	75	37	37
June	1	100	100	100	100	100	100	100	45	45	90	90	55	55	70	70	100	45	45
July	8	75	75	75	75	75	75	75	37	37	65	65	45	45	50	50	75	37	37
July	28	45	45	45	45	45	45	45	32	32	45	45	45	45	45	45	45	32	32
Aug.	16	40	40	40	40	40	40	40	28	28	40	40	40	40	40	40	40	28	28
Aug.	21	35	35	35	35	35	35	35	26	26	35	35	35	35	35	35	35	26	26
Sept.	1	30	30	30	30	30	30	30	24	24	30	30	30	30	30	30	30	24	24
Nov.	27	100	100	100	100	100	100	100	45	45	90	90	55	55	70	70	100	45	45
Dec.	15	125	125	125	125	125	125	125	50	50	110	110	65	65	85	85	125	50	50
1872—Aug.	1	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	73	35	35
Sept.	1	125	125	125	125	125	125	125	50	50	110	110	65	65	85	85	125	50	50
Sept.	2	100	100	100	100	100	100	100	45	45	90	90	55	55	70	70	100	45	45
Oct.	14	125	125	125	125	125	125	125	50	50	110	110	65	65	85	85	125	50	50
1873—Apr.	14	100	100	100	100	100	100	100	45	45	90	90	60	60	75	75	100	45	45
June	11	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	35	35
Aug.	11	40	40	40	40	40	40	40	30	30	40	40	30	30	30	30	40	30	30
Aug.	13	27	27	27	27	27	27	27	17	17	27	27	18	18	18	18	27	17	17
Dec.	1	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	35	35
1874—Jan.	1	100	100	100	100	100	100	100	45	45	90	90	60	60	75	75	100	45	45
Aug.	3	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	35	35
1875—Jan.	20	100	100	100	100	100	100	100	45	45	90	90	60	60	75	75	100	45	45

FROM NEW YORK, N. Y., TO CHICAGO, ILL.

Boston, 1,001 miles; Philadelphia, 822 miles; Baltimore, 801 miles.

carload or carload quantities, they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																						
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
82	82	82	82	160	188	160	160	160	160	160	160	82	82	82	82	160	188	188	160	160	127	127
86	86	86	86	170	202	170	170	170	170	170	170	86	86	86	86	170	202	202	170	170	138	138
Special rate.		86	86	170	202	170	170	170	170	170	170	86	86	86	86	170	202	202	170	170	138	138
..do....		82	82	160	188	160	160	160	160	160	160	82	82	82	82	160	188	188	160	160	127	127
..do....		82	82	128	149	128	128	128	128	128	128	82	82	82	82	128	149	149	128	128	120	120
..do....		82	82	160	188	160	160	160	160	160	160	82	82	82	82	160	188	188	160	160	127	127
..do....		50	50	60	70	60	60	60	60	60	60	52	52	50	50	60	70	70	60	60	55	55
..do....		86	86	170	202	170	170	170	170	170	170	86	86	86	86	170	202	202	170	170	138	138
..do....		82	82	160	188	160	160	160	160	160	160	82	82	82	82	160	188	188	160	160	127	127
..do....		45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
..do....		82	82	160	160	160	160	160	160	160	160	82	82	82	82	160	160	160	160	160	127	127
..do....		82	82	160	160	Special rate.		160	160	160	160	82	82	82	82	160	160	160	160	160	127	127
..do....		82	82	160	188	..do....		160	160	160	160	82	82	82	82	160	188	188	160	160	127	127
..do....		25	25	25	25	..do....		25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
..do....		38	38	38	38	..do....		38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
..do....		43	43	43	43	..do....		43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
..do....		40	40	40	40	..do....		40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
..do....		35	35	35	35	..do....		35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
..do....		50	50	50	50	..do....		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
..do....		75	75	75	75	..do....		75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
..do....		80	80	125	140	..do....		125	125	125	125	80	80	80	80	125	140	140	125	125	100	100
..do....		80	80	130	150	..do....		130	130	125	125	80	80	80	80	130	150	150	130	130	100	100
..do....		80	80	125	140	..do....		125	125	125	125	80	80	80	80	125	140	140	125	125	100	100
..do....		80	80	130	150	..do....		130	130	130	130	80	80	80	80	130	150	150	130	130	100	100
..do....		Special rate.		130	150	..do....		130	130	130	130	80	80	80	80	130	150	150	130	130	100	100
..do....		..do....		90	112	..do....		90	90	90	90	70	70	55	55	90	112	112	90	90	90	90
..do....		..do....		70	80	..do....		70	70	70	70	50	50	50	50	70	80	80	70	70	60	60
..do....		..do....		70	75	..do....		70	70	70	70	50	50	50	50	70	75	75	70	70	60	60
..do....		..do....		60	65	..do....		60	60	60	60	50	50	50	50	60	65	65	60	60	60	60
..do....		..do....		60	65	..do....		60	60	60	60	45	45	45	45	60	65	65	60	60	55	55
..do....		..do....		50	50	..do....		50	50	50	50	45	45	45	45	50	50	50	50	50	50	50
..do....		..do....		50	50	..do....		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
..do....		..do....		90	100	..do....		90	90	90	90	55	55	55	55	90	100	100	90	90	70	70
..do....		..do....		110	125	..do....		110	110	110	110	65	65	65	65	110	125	125	110	110	85	85
..do....		..do....		130	160	..do....		130	130	130	130	65	65	65	65	130	160	160	130	130	100	100
80	80	80	80	150	180	150	150	150	150	150	150	80	80	80	80	150	180	180	150	150	120	120
70	70	70	70	130	150	55	55	130	130	130	130	70	70	70	70	130	150	150	130	130	100	100
55	55	55	55	90	100	45	45	90	90	90	90	45	45	55	55	90	100	100	90	90	70	70
45	45	45	45	65	75	37	37	65	65	65	65	37	37	45	45	65	75	75	65	65	50	50
55	55	55	55	90	100	45	45	90	90	90	90	45	45	55	55	90	100	100	90	90	70	70
45	45	45	45	65	75	37	37	65	65	65	65	37	37	45	45	65	75	75	65	65	50	50
45	45	45	45	45	45	32	32	45	45	45	45	32	32	45	45	45	45	45	45	45	45	45
40	40	40	40	40	40	28	28	40	40	40	40	28	28	40	40	40	40	40	40	40	40	40
35	35	35	35	35	35	26	26	35	35	35	35	26	26	35	35	35	35	25	35	35	35	35
30	30	30	30	30	30	24	24	30	30	30	30	24	24	30	30	30	30	30	30	30	30	30
55	55	55	55	90	100	45	45	90	90	90	90	45	45	55	55	90	100	100	90	90	70	70
65	65	65	65	110	125	110	110	110	110	110	110	50	50	65	65	110	125	125	110	110	85	85
45	45	35	35	70	75	70	70	70	70	70	70	35	35	45	45	70	75	75	70	70	60	60
65	65	65	65	110	125	110	110	110	110	110	110	50	50	65	65	110	125	125	110	110	85	85
55	55	45	45	90	100	90	90	90	90	90	90	45	45	55	55	90	100	100	90	90	70	70
65	65	50	50	110	125	50	50	110	110	110	110	50	50	65	65	110	125	125	110	110	85	85
60	60	45	45	90	100	45	45	90	90	90	90	45	45	60	60	90	Spe'l rate.	60	90	90	75	75
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	.do .	45	70	70	60	60
30	30	30	30	40	40	30	30	40	40	40	40	30	30	30	30	40	.do .	30	40	40	30	30
18	18	17	17	27	27	17	17	27	27	27	27	17	17	18	18	27	.do .	18	27	27	18	18
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	.do .	45	70	70	60	60
60	60	45	45	90	100	45	45	90	90	90	90	45	45	60	60	90	.do .	60	90	90	75	75
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	.do .	45	70	90	60	60
60	60	45	45	90	100	45	45	90	90	90	90	45	45	60	60	90	.do .	60	90	90	75	75

TABLE 29.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 912 miles;

[NOTE.—Where the rates are not specifically described as applying on less than

Date.	Commodities (rates in cents per 100 pounds).																	
	Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar.	
										Castile and fancy.		Common.						
				Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.
1875—Feb. 23	100	100	100	100	100	100	100	30	30	90	90	60	60	75	75	100	30	30
Mar. 17	75	75	75	75	75	75	75	30	30	70	70	45	45	60	60	75	30	30
Apr. 6	60	60	60	60	60	60	60	30	30	55	55	40	40	50	50	60	30	30
May 18	40	40	40	40	40	40	40	25	25	40	40	35	35	35	35	40	25	25
Aug. 12	50	50	50	50	50	50	50	20	20	40	40	25	25	30	30	50	20	20
Nov. 15	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	35	35
Dec. 22	30	30	30	30	30	30	30	15	15	25	25	20	20	20	20	30	15	15
1876—Jan. 10	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	35	35
June 12	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25	16	16
July 28	15	15	15	15	15	15	15	10	10	15	15	10	10	15	15	15	10	10
Dec. 18	50	50	50	50	50	50	50	25	25	45	45	30	30	40	40	50	25	25
1877—Mar. 12	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	35	35
Oct. 8	75	75	75	75	75	75	40	40	40	70	70	40	40	40	40	75	40	40
Oct. 22	100	100	100	100	100	100	45	45	45	90	90	45	45	45	45	100	45	45
Dec. 10	100	100	100	100	100	100	45	45	45	80	80	45	45	45	45	100	45	45
1878—Feb. 15	75	75	75	75	75	75	40	40	40	60	60	40	40	40	40	75	40	40
1881—Aug. 6	45	45	45	45	45	45	19	19	19	32	32	19	19	19	19	45	19	19
Nov. 14	60	60	60	60	60	60	28	28	28	50	50	28	28	28	28	60	28	28
1882—Jan. 24	45	45	45	45	45	45	19	19	19	32	32	19	19	19	19	45	19	19
July 1	60	60	60	60	60	60	30	30	30	50	50	30	30	30	30	60	25	25
Nov. 1	75	75	75	75	75	75	35	35	35	60	60	35	35	35	35	75	25	25
1883—June 22	75	75	75	75	75	75	35	35	35	60	60	35	35	35	35	75	25	25
1885—Jan. 26	50	50	50	50	50	50	25	25	25	40	40	25	25	25	25	50	18	18
Oct. 5	60	60	60	60	60	60	25	25	25	50	50	25	25	25	25	60	20	20
Nov. 18	75	75	75	75	75	75	35	35	35	60	60	35	35	35	35	75	25	25
1886—Aug. 26	75	75	75	75	75	75	35	35	35	60	60	35	35	35	35	75	25	25
1887—Apr. 1	75	50	75	75	65	50	30	35	25	65	65	35	30	35	25	75	35	25
1888—Jan. 9	75	50	75	75	65	50	33	38½	27½	65	65	38½	33	38½	27½	75	38½	27½
Mar. 5	75	50	75	75	65	50	30	35	25	65	65	35	30	35	25	75	35	25
Nov. 12	50	35	50	50	40	35	25	30	20	40	40	30	25	30	20	50	30	20
Dec. 17	75	50	75	75	65	50	30	35	25	65	65	35	30	35	25	75	35	25
1891—Apr. 9	75	50	75	75	65	30	25	35	25	65	65	35	25	35	25	75	35	25
June 20	75	50	75	75	65	30	25	35	25	35	25	35	25	35	25	75	35	25
1892—June 6	75	50	75	75	65	30	25	35	25	35	25	35	25	35	25	75	35	25

NEW YORK, N. Y. TO CHICAGO, ILL.—Continued.

Boston, 1,001 miles; Philadelphia, 822 miles; Baltimore, 801 miles.

carload or carload quantities, they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																							
Molasses.		Rice.				Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.			Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.	Groceries.	Drugs.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Hardware.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
60	60	45	45	90	100	45	45	90	90	90	90	45	45	60	60	90	Sp'l rate.	60	90	90	75	75
60	60	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	.do.	45	70	70	60	60
60	60	30	30	55	60	30	30	55	55	55	55	30	30	40	40	55	.do.	40	55	55	50	50
60	60	25	25	40	40	40	40	40	40	40	40	25	25	35	35	40	.do.	35	40	40	35	35
25	25	20	20	40	50	20	20	40	40	40	40	20	20	25	25	40	.do.	25	40	40	30	30
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	.do.	45	70	70	60	60
20	20	15	15	25	30	15	15	25	25	25	25	15	15	20	20	25	.do	20	25	25	20	20
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	.do.	45	70	70	60	60
16	16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	25	.do.	16	25	25	25	25
10	10	10	10	15	15	10	10	15	15	15	15	10	10	10	10	15	.do.	10	15	15	15	15
30	30	25	25	45	50	25	25	45	45	45	45	25	25	30	30	45	.do.	25	45	45	40	40
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	.do.	45	70	70	60	60
40	40	40	40	70	75	40	40	40	40	70	70	40	40	40	40	70	.do.	40	70	40	40	40
45	45	45	45	90	100	45	45	45	45	90	90	45	45	45	45	90	.do.	45	90	45	45	45
45	45	45	45	80	100	45	45	45	45	80	80	45	45	45	45	80	.do.	45	80	45	45	45
40	40	40	40	60	75	40	40	40	40	60	60	40	40	40	40	60	.do.	40	60	40	40	40
19	19	19	19	32	45	19	19	19	19	32	32	19	19	19	19	32	.do.	19	32	19	19	19
28	28	28	28	50	60	28	28	28	28	50	50	28	28	28	28	50	.do.	28	50	28	28	28
19	19	19	19	32	45	19	19	19	19	32	32	19	19	19	19	32	.do.	19	32	19	19	19
25	25	30	30	50	60	30	30	30	30	50	50	30	30	30	30	50	.do.	30	50	30	30	30
35	35	35	35	60	75	35	35	35	35	60	60	35	35	35	35	60	.do.	35	60	35	35	35
25	25	35	35	60	75	35	35	35	35	60	60	35	35	35	35	60	.do.	36	60	35	35	35
18	18	25	25	40	50	25	25	35	25	40	40	25	25	25	25	40	.do.	25	40	25	25	25
20	20	25	25	50	60	25	25	25	25	50	50	25	25	25	25	50	.do.	25	50	25	25	25
25	25	35	35	60	75	35	35	35	35	60	60	35	35	35	35	60	.do.	35	60	35	35	35
25	25	35	35	60	75	35	35	35	35	60	60	35	35	35	35	60	.do.	35	60	35	35	35
35	30	35	35	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
38½	33	38½	27½	65	75	38½	33	50	38½	50	38½	38½	27½	38½	33	65	50	33	38½	33	50	33
35	30	35	25	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
30	25	30	20	40	50	30	25	35	30	35	30	30	20	30	25	40	35	25	30	25	35	25
35	30	35	25	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	30	25	65	50	30	35	35	50	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	30	25	65	50	30	35	35	50	30

TABLE 21.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 997 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.	Commodities (rates in cents per 100 pounds).																		
				Furniture.		Stoves.		Coffee.		Soaps.				Starch.			Sugar.		
										Castile and fancy.		Common.							
	Dry goods.	Cotton piece goods.	Boots and shoes.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Tea.	Less than carloads.	Carloads.
1867—Jan. 1	188	188	188	188	188	188	188	160	160	160	160	127	127	160	160	188	82	82
Nov. 5	202	202	202	202	202	202	202	170	170	170	170	138	138	160	160	202	88	88
1868—Feb. 4	202	202	202	202	202	202	202	Special rate.		170	170	86	86	138	138	202	Special rate.	
June 4	188	188	188	188	188	188	188	..do	....	160	160	82	82	127	127	188	..do	....
Aug. 10	149	149	149	149	149	149	149	..do	....	128	128	82	82	120	120	149	..do	....
Sept. 7	188	188	188	188	188	188	188	..do	....	160	160	82	82	127	127	188	..do	....
Oct. 1	88	88	88	88	88	88	88	..do	....	74	74	60	60	88	88	88	..do	....
Dec. 7	202	202	202	202	202	202	202	..do	....	170	170	86	86	138	138	202	..do	....
1869—Feb. 1	188	188	188	188	188	188	188	..do	....	160	160	82	82	127	127	188	..do	....
Mar. 15	160	160	160	160	160	160	160	..do	....	160	160	82	82	127	127	160	..do	....
Apr. 12	160	160	160	160	160	160	160	..do	....	160	160	82	82	127	127	160	..do	....
July 1	188	188	188	188	188	188	188	..do	....	160	160	82	82	127	127	188	..do	....
Aug. 11	44	44	44	44	44	44	44	..do	....	42	42	36	36	39	39	44	..do	....
Aug. 28	56	56	56	56	56	56	50	..do	....	32	32	28	28	33	33	56	..do	....
Sept. 24	54	54	54	54	54	54	54	..do	....	42	42	48	48	49	49	54	..do	....
Oct. 4	69	69	69	69	69	69	60	..do	....	67	67	61	61	61	61	69	..do	....
Oct. 9	93	93	93	93	93	93	93	..do	....	91	91	61	61	89	89	93	..do	....
Nov. 1	140	140	140	140	140	140	140	..do	....	125	125	80	80	100	100	140	..do	....
Nov. 29	150	150	150	150	150	150	150	..do	....	130	130	80	80	100	100	150	..do	....
1870—Apr. 14	140	140	140	140	140	140	140	..do	....	125	125	80	80	100	100	140	38	38
May 7	150	150	150	150	150	150	150	..do	....	130	130	80	80	100	100	150	38	38
June 18	112	112	112	112	112	112	112	..do	....	90	90	55	55	70	70	112	38	38
July 13	80	80	80	80	80	80	80	..do	....	70	70	50	50	60	60	80	Special rate.	
July 25	65	65	65	65	65	65	65	..do	....	60	60	45	45	55	55	65	..do	....
Aug. 12	50	50	50	50	50	50	50	..do	....	50	50	50	50	50	50	50	..do	....
Aug. 22	100	100	100	100	100	100	100	..do	....	90	90	55	55	70	70	100	..do	....
Nov. 28	160	160	160	160	160	160	160	..do	....	130	130	65	65	100	100	160	..do	....
Dec. 26	180	180	180	180	180	180	180	60	60	150	150	80	80	120	120	180	60	60
1871—Feb. 20	150	150	150	150	150	150	150	55	55	130	130	70	70	100	100	150	55	55
Mar. 18	100	100	100	100	100	100	100	45	45	90	90	60	60	70	70	100	45	45
May 18	75	75	75	75	75	75	75	37	37	65	65	45	45	50	50	75	37	37
June 1	100	100	100	100	100	100	100	45	45	90	90	55	55	70	70	100	45	45
July 8	75	75	75	75	75	75	75	37	37	65	65	45	45	50	50	75	37	37
July 28	42	42	42	42	42	42	42	26	26	42	42	31	31	36	36	42	26	26
Dec. 15	125	125	125	125	125	125	125	50	50	110	110	65	65	85	85	125	50	50
1872—Aug. 1	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	35	35
Sept. 1	125	125	125	125	125	125	125	50	50	110	110	65	65	85	85	125	50	50
Sept. 2	100	100	100	100	100	100	100	45	45	90	90	55	55	70	70	100	45	45
Oct. 14	125	125	125	125	125	125	125	50	50	110	110	65	65	85	85	125	50	50
1873—Apr. 14	100	100	100	100	100	100	100	45	45	90	90	60	60	75	75	100	45	45
June 11	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	35	35
Aug. 13	45	45	45	45	45	45	35	35	45	45	35	35	35	35	45	35	35	
Aug. 21	40	40	40	40	40	40	40	30	30	40	40	30	30	30	30	40	30	30
Sept. 17	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	35	35
1874—Jan. 1	100	100	100	100	100	100	100	45	45	90	90	60	60	75	75	100	45	45
Aug. 3	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	35	35
1875—Jan. 20	100	100	100	100	100	100	100	45	45	90	90	60	60	75	75	100	45	45
Mar. 17	75	75	75	75	75	75	75	30	30	70	70	45	45	60	60	75	30	30
May 26	45	45	45	45	45	45	45	30	30	40	40	35	35	40	40	45	30	30
Aug. 12	50	50	50	50	50	50	50	20	20	40	40	25	25	30	30	50	20	20
Nov. 15	68	68	68	68	68	68	68	32	32	64	64	41	41	55	55	68	32	32
Dec. 22	22	22	22	22	22	22	22	11	11	19	19	16	16	15	15	22	11	11
1876—Jan. 10	75	75	75	75	75	75	75	20	20	70	70	25	25	60	60	75	20	20
June 12	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25	16	16
1877—Jan. 1	50	50	50	50	50	50	50	25	25	45	45	30	30	40	40	50	25	25
Mar. 12	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	35	35
Oct. 8	75	75	75	75	75	75	40	40	40	70	70	40	40	40	40	75	40	40
Oct. 22	100	100	100	100	100	100	45	45	45	90	90	45	45	45	45	100	45	45
Dec. 10	100	100	100	100	100	100	45	45	45	80	80	45	45	45	45	100	45	45
1878—Feb. 15	75	75	75	75	75	75	40	40	40	60	60	40	40	40	40	75	40	40

NEW YORK, N. Y., TO MILWAUKEE, WIS.

Boston, 1,086 miles; Philadelphia, 907 miles; Baltimore, 886 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																								
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
82	82	82	82	160	188	160	160	160	160	160	160	82	82	82	82	160	188	188	160	160	127	127
86	86	86	86	170	202	170	170	170	170	170	170	86	86	86	86	170	202	202	170	170	138	138
Special rate.		86	86	170	202	170	170	170	170	170	170	86	86	86	86	170	202	202	170	170	138	138
..do....		82	82	160	188	160	160	160	160	160	160	82	82	82	83	160	188	188	160	160	127	127
..do....		82	82	128	149	128	128	128	128	128	128	82	82	82	82	128	149	149	128	128	120	120
..do....		82	82	160	188	160	160	160	160	160	160	82	82	82	82	160	188	188	160	160	127	127
..do....		60	60	74	88	74	74	74	74	74	74	60	60	60	60	74	188	188	74	74	68	68
..do....		86	86	170	202	170	170	170	174	170	170	86	86	86	86	170	202	202	170	170	138	138
..do....		82	82	160	188	160	160	160	160	160	160	82	82	82	82	160	188	188	160	160	127	127
..do....		82	82	160	160	160	160	160	160	160	160	82	82	82	82	160	160	160	160	160	127	127
..do....		82	82	160	160	Special rate.		160	160	160	160	82	82	82	82	160	160	160	160	160	127	127
..do....		82	82	160	188	..do....		160	160	160	160	82	82	82	82	160	188	188	160	160	127	127
..do....		36	36	42	44	..do....		42	42	42	42	36	36	36	36	42	44	44	42	42	39	39
..do....		38	38	32	56	..do....		38	38	38	38	38	38	38	38	38	56	56	38	38	38	38
..do....		46	46	42	54	..do....		42	42	42	42	46	46	46	46	42	54	54	42	42	49	49
..do....		61	61	67	69	..do....		67	67	67	67	61	61	61	61	67	69	69	67	67	64	64
..do....		61	61	91	93	..do....		91	91	91	91	61	61	61	61	91	93	93	91	91	89	89
..do....		80	80	125	140	..do....		125	125	125	125	80	61	80	80	125	140	140	125	125	100	100
..do....		80	80	130	150	..do....		130	130	130	130	80	80	80	80	130	150	150	130	130	100	100
..do....		80	80	125	140	..do....		125	125	125	125	80	80	80	80	125	140	140	125	125	100	100
..do....		Special rate.		130	150	..do....		130	130	130	130	80	80	80	80	130	150	150	130	130	100	100
..do....		..do....		90	112	..do....		90	90	90	90	55	55	55	55	90	112	112	90	90	70	70
..do....		..do....		70	80	..do....		70	70	70	70	50	50	50	50	70	80	80	70	70	60	60
..do....		..do....		60	65	..do....		60	60	60	60	45	45	45	45	60	65	65	60	60	55	55
..do....		..do....		50	50	..do....		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
..do....		..do....		90	100	..do....		90	90	90	90	55	55	55	55	90	100	100	90	90	70	70
..do....		..do....		130	160	..do....		130	130	130	130	65	65	65	65	130	160	160	130	130	100	100
80	80	80	80	150	180	150	150	150	150	150	150	80	80	80	80	150	180	180	150	150	120	120
70	70	70	70	130	150	55	55	130	130	130	130	55	55	70	70	130	150	150	130	130	100	100
55	55	55	55	90	100	45	45	90	90	90	90	45	45	55	55	90	100	100	90	90	70	70
45	45	45	45	65	75	37	37	65	65	65	65	37	37	45	45	65	75	75	65	65	50	50
55	55	55	55	90	100	45	45	90	90	90	90	45	45	55	55	90	100	100	90	90	70	70
45	45	45	45	65	75	37	37	65	65	65	65	37	37	45	45	65	75	75	65	65	50	50
31	31	31	31	42	42	26	26	42	42	42	42	26	26	31	31	42	42	42	42	42	36	36
65	65	65	65	110	125	110	110	110	110	110	110	50	50	65	65	110	125	125	110	110	85	85
45	45	35	35	70	75	70	70	70	70	70	70	35	35	45	45	70	75	75	70	70	60	60
65	65	65	65	110	125	110	110	110	110	110	110	50	50	65	65	110	125	125	110	110	85	85
55	55	45	45	90	100	90	90	90	90	90	90	45	45	55	55	90	100	100	90	90	70	70
65	65	50	50	110	125	50	50	110	110	110	110	50	50	65	65	110	125	125	110	110	85	85
60	60	45	45	90	100	45	45	90	90	90	90	45	45	60	60	90	Sp'l rate	60	90	90	75	75
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	.do .	45	70	70	60	60
35	35	35	35	45	45	35	35	45	45	45	45	35	35	35	35	45	.do .	35	45	45	35	35
30	30	30	30	40	40	30	30	40	40	40	40	50	50	30	30	40	.do .	30	40	40	30	30
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	.do .	45	70	70	60	60
60	60	45	45	90	100	45	45	90	90	90	90	45	45	60	60	90	.do .	60	90	90	75	75
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	.do .	45	70	70	60	60
60	60	45	45	90	100	45	45	90	90	90	90	45	45	60	60	90	.do .	60	90	90	75	75
30	30	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	.do .	45	70	70	60	60
30	30	30	30	40	45	30	30	40	40	40	40	30	30	35	35	40	.do .	40	40	40	40	40
25	25	20	20	40	50	20	20	40	40	40	40	20	20	25	25	40	.do .	25	40	40	30	30
41	41	32	32	64	68	32	32	64	64	64	64	32	32	41	41	64	.do .	41	64	64	55	55
16	16	11	11	19	22	11	11	19	19	19	19	11	11	16	16	19	.do .	16	19	19	15	15
25	25	20	20	70	75	20	20	70	70	70	70	20	20	25	25	70	.do .	25	70	70	60	60
16	16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	25	.do .	16	25	25	25	25
30	30	25	25	45	50	25	25	45	45	45	45	25	25	30	30	45	.do .	30	45	45	40	40
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	.do .	45	70	70	60	60
40	40	40	40	70	75	40	40	40	40	70	70	40	40	40	40	70	.do .	40	70	70	40	40
45	45	45	45	90	100	45	45	45	45	90	90	45	45	45	45	90	.do .	45	90	45	45	45
45	45	45	45	80	100	45	45	45	45	80	80	45	45	45	45	80	.do .	45	80	45	45	45
40	40	40	40	60	75	40	40	40	40	60	60	40	40	40	40	60	.do .	40	60	40	40	40

TABLE 21.—RATES OF FREIGHT, ALL RAIL, FROM NEW

DISTANCE VIA SHORTEST ROUTE.—From New York, 997 miles; Boston,

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.	Commodities (rates in cents per 100 pounds.)																
	Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar
										Castile and fancy.		Common.					
				Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.
1881—Aug. 6.....	45	45	45	45	45	45	19	19	19	32	32	19	19	19	19	45	19
Nov. 14.....	60	60	60	60	60	60	28	28	28	50	50	28	28	28	28	60	28
1882—Jan. 24.....	45	45	45	45	45	45	19	19	19	32	32	19	19	19	19	45	19
July 1.....	60	60	60	60	60	60	30	30	30	50	50	30	30	30	30	60	25
Nov. 1.....	75	75	75	75	75	75	35	35	35	60	60	35	35	35	35	75	25
1883—June 22.....	75	75	75	75	75	75	35	35	35	60	60	35	35	35	35	75	25
1885—Jan. 26.....	50	50	50	50	50	50	25	25	25	40	40	25	25	25	25	50	18
Oct. 5.....	60	60	60	60	60	60	25	25	25	50	50	25	25	25	25	60	20
Nov. 18.....	75	75	75	75	75	75	35	35	35	60	60	35	35	35	35	75	25
1886—Aug. 26.....	75	50	75	75	75	75	35	35	35	60	60	35	35	35	35	75	25
1887—Apr. 1.....	75	50	75	75	65	50	30	25	25	65	65	35	30	35	35	75	25
1888—Jan. 9.....	75	50	75	75	65	50	33	38½	27½	65	65	38½	33	38½	27½	75	25½
Mar. 5.....	75	50	75	75	65	50	30	35	25	65	65	35	30	35	25	75	25
Nov. 12.....	50	35	50	50	40	35	25	30	20	40	40	30	25	30	20	50	20
Dec. 17.....	75	50	75	75	65	50	30	35	25	65	65	35	30	35	25	75	25
1889—Feb. 18.....	75	50	75	75	65	50	30	35	25	65	65	35	30	35	25	75	25
1891—Apr. 9.....	75	50	75	75	60	30	25	35	25	65	65	35	30	35	25	75	25
1892—June 6.....	75	50	75	75	60	30	25	35	25	35	25	35	25	35	25	75	25

YORK, N. Y., TO MILWAUKEE, WIS.—Continued.

1,086 miles; Philadelphia, 907 miles; Baltimore, 886 miles—Continued.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																					
Molasses.		Rice.				Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.			Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.	Groceries.	Drugs.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Hardware.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
19	19	19	19	32	45	19	19	19	19	32	32	19	19	19	19	32	Sp'l rate.	19	32	19	19	19
28	28	28	28	50	60	28	28	28	28	50	50	28	28	28	28	50	.do.	28	50	28	28	28
19	19	19	19	32	45	19	19	19	19	32	32	19	19	19	19	32	.do.	19	32	19	19	19
25	25	30	30	50	60	30	30	30	30	50	50	30	30	30	30	50	.do.	30	50	30	30	30
35	35	35	35	60	75	35	35	35	35	60	60	35	35	35	35	60	.do.	35	60	35	35	35
25	25	35	35	60	75	35	35	35	35	60	60	35	35	35	35	60	.do.	35	60	35	35	35
18	18	25	25	40	50	25	25	25	25	40	40	25	25	25	25	40	.do.	25	40	25	25	25
20	20	25	25	50	60	25	25	25	25	50	50	25	25	25	25	50	.do.	25	50	25	25	25
25	25	25	25	60	75	35	35	35	35	60	60	35	35	35	35	60	.do.	35	60	35	35	35
25	25	35	35	60	75	35	35	35	35	60	60	35	35	35	35	60	.do.	35	60	35	35	35
35	30	35	35	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
38½	33	38½	27½	65	75	38½	33	50	38½	38½	27½	38½	27½	38½	33	65	50	27½	38½	33	50	33
35	30	35	25	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
30	25	30	20	40	50	30	25	35	30	35	30	30	20	30	25	40	35	25	30	25	35	25
30	25	35	25	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	30	25	65	50	30	35	30	50	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	30	25	65	50	30	35	30	50	30

TABLE 22.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 998 miles:

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.	Commodities (rates in cents per 100 pounds).																			
				Furniture.		Stoves.		Coffee.		Soap.				Starch.				Sugar	
										Castile and fancy.		Common.							
	Dry goods.	Cotton piece goods.	Boots and shoes.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Tea.	Less than carloads.	Carloads
1867—Jan. 1	205	205	205	205	205	205	205	176	176	176	176	139	139	176	176	265	99	94
May 15	217	217	217	217	217	217	217	185	185	185	185	148	148	185	185	217	94	94
Nov. 5	235	235	235	235	235	235	235	198	198	198	198	161	161	198	198	235	99	99
1868—Feb. 4	235	235	235	235	235	235	235	Special rate.		198	198	99	99	161	161	235	Special rate.	
June 4	217	217	217	217	217	217	217	..do....		185	185	94	94	148	148	217	..do....	
Aug. 10	173	173	173	173	173	173	173	..do....		148	148	94	94	138	138	173	..do....	
Sept. 7	217	217	217	217	217	217	217	..do....		185	185	94	94	148	148	217	..do....	
Oct. 1	110	110	110	110	110	110	110	..do....		94	94	73	73	84	84	110	..do....	
Oct. 22	59	59	59	59	59	59	59	..do....		59	59	59	59	59	59	59	..do....	
Dec. 7	235	235	235	235	235	235	235	..do....		198	198	99	99	161	161	235	..do....	
1869—Feb. 1	217	217	217	217	217	217	217	..do....		185	185	94	94	148	148	217	..do....	
Feb. 17	57	57	57	57	57	57	57	..do....		57	57	57	57	57	57	57	..do	
Mar. 15	185	185	185	185	185	185	185	..do....		185	185	94	94	148	148	185	..do....	
Apr. 12	185	185	185	185	185	185	185	..do....		185	185	94	94	148	148	185	..do....	
July 1	217	217	217	217	217	217	217	..do....		185	185	94	94	148	148	217	..do....	
Aug. 11	35	35	35	35	35	35	35	..do....		35	35	35	35	35	35	35	..do....	
Sept. 22	45	45	45	45	45	45	45	..do....		45	45	45	45	45	45	45	..do....	
Oct. 4	60	60	60	60	60	60	60	..do....		60	60	60	60	60	60	60	..do....	
Oct. 9	87	87	87	87	87	87	87	..do....		87	87	60	60	87	87	87	..do....	
Nov. 1	163	163	163	163	163	163	163	..do....		146	146	94	94	117	117	163	..do....	
Nov. 29	176	176	176	176	176	176	176	..do....		151	151	94	94	117	117	176	..do....	
1870—Apr. 14	176	176	176	176	176	176	176	..do....		151	151	94	94	117	117	176	45	45
May 7	176	176	176	176	176	176	176	..do....		151	151	94	94	117	117	176	45	45
June 18	124	124	124	124	124	124	124	..do....		99	99	63	63	80	80	124	45	45
July 13	92	92	92	92	92	92	92	..do....		80	80	55	55	68	68	92	45	45
July 21	80	80	80	80	80	80	80	..do....		70	70	55	55	63	63	80	45	45
July 25	75	75	75	75	75	75	75	..do....		65	65	48	48	60	60	75	45	45
July 28	55	55	55	55	55	55	55	..do....		55	55	48	48	55	55	55	45	45
Aug. 12	57	57	57	57	57	57	57	..do....		57	57	57	57	57	57	57	45	45
Aug. 22	110	110	110	110	110	110	110	..do....		99	99	63	63	80	80	110	45	45
Sept. 8	145	145	145	145	145	145	145	..do....		129	129	76	76	99	99	145	45	45
Nov. 28	178	178	178	178	178	178	178	..do....		144	144	73	73	113	113	178	45	45
Dec. 26	202	202	202	202	202	202	202	67	67	168	168	89	89	134	134	202	67	67
1871—Feb. 20	168	168	168	168	168	168	168	62	62	144	144	79	79	113	113	168	62	62
Mar. 7	110	110	110	110	110	110	110	48	48	99	99	63	63	80	80	110	48	48
Mar. 13	113	113	113	113	113	113	113	51	51	101	101	63	63	79	79	113	51	51
May 18	84	84	84	84	84	84	84	41	41	73	73	50	50	57	57	84	41	41
June 1	113	113	113	113	113	113	113	51	51	101	101	63	63	79	79	113	51	51
July 8	84	84	84	84	84	84	84	41	41	73	73	50	50	57	57	84	41	41
July 28	53	53	53	53	53	53	53	37	37	53	53	50	50	53	53	53	37	37
Aug. 16	45	45	45	45	45	45	45	32	32	45	45	45	45	45	45	45	32	32
Aug. 22	40	40	40	40	40	40	40	29	29	40	40	40	40	40	40	40	29	29
Sept. 1	35	35	35	35	35	35	35	27	27	35	35	35	35	35	35	35	27	27
Nov. 27	113	113	113	113	113	113	113	51	51	101	101	63	63	63	63	113	51	51
Dec. 15	140	140	140	140	140	140	140	56	56	123	123	73	73	95	95	140	56	56
1872—April 27	140	140	140	140	140	140	140	56	56	123	123	73	73	95	95	140	56	56
Aug. 1	84	84	84	84	84	84	84	39	39	78	78	50	50	67	67	84	39	39
Sept. 1	140	140	140	140	140	140	140	56	56	123	123	73	73	95	95	140	56	56
Sept. 2	112	112	112	112	112	112	112	50	50	101	101	62	62	78	78	112	50	50
Oct. 14	140	140	140	140	140	140	140	56	56	123	123	73	73	95	95	140	56	56
1873—April 14	112	112	112	112	112	112	112	50	50	101	101	67	67	84	84	112	56	50
June 11	84	84	84	84	84	84	84	39	39	78	78	50	50	67	67	84	39	39
Aug. 11	45	45	45	45	45	45	45	34	34	45	45	34	34	34	34	45	34	34
Sept. 17	84	84	84	84	84	84	84	39	39	78	78	50	50	67	67	84	39	39
1874—Jan. 1	112	112	112	112	112	112	112	50	50	101	101	67	67	84	84	112	50	50
Aug. 3	84	84	84	84	84	84	84	39	39	78	78	50	50	67	67	84	39	39
1875—Jan. 20	112	112	112	112	112	112	112	50	50	101	101	67	67	84	84	112	50	50
Mar. 17	112	112	112	112	112	112	112	34	34	101	101	67	67	84	84	112	34	34
April 1	105	105	105	105	105	105	105	43	43	95	95	63	63	81	81	105	43	43
April 6	112	112	112	112	112	112	112	50	50	101	101	67	67	84	84	112	50	50
Aug. 12	80	80	80	80	80	80	80	30	30	60	60	37	37	46	46	80	30	30
Dec. 22	55	55	55	55	55	55	55	32	32	45	45	23	23	33	33	55	32	32

NEW YORK, N. Y., TO PEORIA, ILL.

Boston, 1,164 miles; Philadelphia, 908 miles; Baltimore, 887 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).

Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
90	90	90	90	176	205	176	176	176	176	176	176	90	90	90	90	176	205	205	176	176	139	139
94	94	94	94	185	217	185	185	185	185	185	185	94	94	94	94	185	217	217	185	185	148	148
99	99	99	99	198	235	198	198	198	198	198	198	99	99	99	99	198	235	235	198	198	161	161
Special rate.		99	99	198	235	198	198	198	198	198	198	99	99	99	99	198	235	235	198	198	161	161
..do....		94	94	185	217	185	185	185	185	185	185	94	94	94	94	185	217	217	185	185	148	148
..do....		94	94	148	173	148	148	148	148	148	148	94	94	94	94	148	173	173	148	148	138	138
..do....		94	94	185	217	185	185	185	185	185	185	94	94	94	94	185	217	217	185	185	148	148
..do....		73	73	94	110	94	94	94	94	94	94	73	73	73	73	94	110	110	94	94	84	84
..do....		59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
..do....		99	99	198	235	198	198	198	198	198	198	99	99	99	99	198	235	235	198	198	161	161
..do....		94	94	185	217	185	185	185	185	185	185	94	94	94	94	185	217	217	185	185	148	148
..do....		57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57
..do....		94	94	185	185	185	185	185	185	185	185	94	94	94	94	185	185	185	185	185	148	148
..do....		94	94	185	185	Special rate.		185	185	185	185	94	94	94	94	185	185	185	185	185	148	148
..do....		94	94	185	217	..do....		185	185	185	185	94	94	94	94	185	217	217	185	185	148	148
..do....		35	35	35	35	..do....		35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
..do....		45	45	45	45	..do....		45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
..do....		60	60	60	60	..do....		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
..do....		60	60	87	87	..do....		87	87	87	87	60	60	60	60	87	87	87	87	87	87	87
..do....		94	94	146	163	..do....		146	146	146	146	94	94	94	94	146	163	163	146	146	117	117
..do....		94	94	151	176	..do....		151	151	151	151	94	94	94	94	151	176	176	151	151	117	117
..do....		94	94	151	176	..do....		151	151	151	151	94	94	94	94	151	176	176	151	151	117	117
..do....		Special rate.		151	176	..do....		151	151	151	151	94	94	94	94	151	176	176	151	151	117	117
..do....		..do....		99	124	..do....		99	99	99	99	63	63	63	63	99	124	124	99	99	80	80
..do....		..do....		80	92	..do....		80	80	80	80	55	55	55	55	80	92	92	80	80	68	68
..do....		..do....		70	80	..do....		70	70	70	70	55	55	55	55	70	80	80	70	70	63	63
..do....		..do....		65	75	..do....		65	65	65	65	48	48	48	48	65	75	75	65	65	60	60
..do....		..do....		55	55	..do....		55	55	55	55	48	48	48	48	55	55	55	55	55	55	55
..do....		..do....		57	57	..do....		57	57	57	57	57	57	57	57	57	57	57	57	57	57	57
..do....		..do....		99	110	..do....		99	99	99	99	63	63	63	63	99	110	110	99	99	80	80
..do....		..do....		129	145	..do....		129	129	129	129	76	76	76	76	129	145	145	129	129	99	99
..do....		..do....		144	178	..do....		144	144	144	144	72	72	72	72	144	178	178	144	144	113	113
89	89	89	89	168	202	168	168	168	168	168	168	89	89	89	89	168	202	202	168	168	134	134
79	79	79	79	144	168	62	62	144	144	144	144	62	62	79	79	144	168	168	144	144	113	113
63	63	63	63	99	110	48	48	99	99	99	99	48	48	63	63	99	110	110	99	99	80	80
62	62	62	62	101	113	51	51	101	101	101	101	51	51	62	62	101	113	113	101	101	79	79
50	50	50	50	72	84	41	41	72	72	72	72	41	41	50	50	72	84	84	72	72	57	57
62	62	62	62	101	113	51	51	101	101	101	101	51	51	62	62	101	113	113	101	101	79	79
50	50	50	50	72	84	41	41	72	72	72	72	41	41	50	50	72	84	84	72	72	57	57
50	50	50	50	53	53	37	37	53	53	53	53	37	37	50	50	53	53	53	53	53	53	53
45	45	45	45	45	45	32	32	45	45	45	45	32	32	45	45	45	45	45	45	45	45	45
40	40	40	40	40	40	29	29	40	40	40	40	29	29	40	40	40	40	40	40	40	40	40
35	35	35	35	35	35	27	27	35	35	35	35	27	27	35	35	35	35	35	35	35	35	35
62	62	62	62	101	113	51	51	101	101	101	101	51	51	62	62	101	113	113	101	101	79	79
73	73	73	73	123	140	123	123	123	123	123	123	56	56	73	73	123	140	140	123	123	95	95
73	73	56	56	123	140	123	123	123	123	123	123	56	56	73	73	123	140	140	123	123	95	95
50	50	39	39	78	84	78	78	78	78	78	78	39	39	50	50	78	84	84	78	78	67	67
73	73	73	73	123	140	56	56	123	123	123	123	56	56	73	73	123	140	140	123	123	95	95
62	62	50	50	101	112	101	101	101	101	101	101	50	50	62	62	101	112	112	101	101	78	78
73	73	56	56	123	140	56	56	123	123	123	123	56	56	73	73	123	140	140	123	123	95	95
67	67	50	50	101	112	50	50	101	101	101	101	50	50	67	67	101	Sp'l rate.	67	101	101	84	84
50	50	39	39	78	84	39	39	78	78	78	78	39	39	50	50	78	.do.	50	78	78	67	67
34	34	34	34	45	45	34	34	45	45	45	45	34	34	34	34	45	.do.	34	45	45	34	34
50	50	39	39	78	84	39	39	78	78	78	78	39	39	50	50	78	.do.	50	78	78	67	67
67	67	50	50	101	112	50	50	101	101	101	101	50	50	67	67	101	.do.	67	101	101	84	84
50	50	39	39	78	84	39	39	78	78	78	78	39	39	50	50	78	.do.	50	78	78	67	67
67	67	50	50	101	112	50	50	101	101	101	101	50	50	67	67	101	.do.	67	101	101	84	84
34	34	50	50	101	112	50	50	101	101	101	101	50	50	67	67	101	.do.	67	101	101	84	84
62	62	48	48	95	105	48	48	95	95	95	95	48	48	62	62	95	.do.	62	95	95	81	81
67	67	50	50	101	112	50	50	101	101	101	101	50	50	67	67	101	.do.	67	101	101	84	84
37	37	30	30	60	80	30	30	60	60	60	60	30	30	37	37	60	.do.	37	60	60	46	46
33	33	32	32	45	55	32	32	45	45	45	45	32	32	32	32	45	.do.	32	45	45	36	36

TABLE 22.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 998 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.	Commodities (rates in cents per 100 pounds).																	
	Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar	
										Castile and fancy.		Common.						
				Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.
1876—Jan. 10.....	84	84	84	84	84	84	84	39	39	78	78	50	50	67	97	84	39	39
June 13.....	28	28	28	28	28	28	28	18	18	28	28	28	28	28	28	28	28	28
July 28.....	17	17	17	17	17	17	17	12	12	17	17	12	12	17	17	17	12	12
Dec. 18.....	56	56	56	56	56	56	56	28	28	50	50	45	45	45	45	56	28	28
1877—Mar. 12.....	84	84	84	84	84	84	84	39	39	78	78	50	50	67	67	84	39	39
Oct. 8.....	84	84	84	84	84	84	45	45	45	78	78	45	45	45	45	84	45	45
Oct. 22.....	112	112	112	112	112	112	50	50	50	101	101	50	50	50	50	112	50	50
Dec. 30.....	112	112	112	112	112	112	50	50	50	90	90	50	50	50	50	112	50	50
1878—Feb. 15.....	84	84	84	84	84	84	45	45	45	67	67	45	45	45	45	84	45	45
1881—Aug. 6.....	50	50	50	50	50	50	21	21	21	36	36	21	21	21	21	50	21	21
1882—July 1.....	67	67	67	67	67	67	34	34	34	56	56	34	34	34	34	67	28	28
Nov. 1.....	84	84	84	84	84	84	39	39	39	67	67	39	39	39	39	84	39	39
1883—June 22.....	84	84	84	84	84	84	39	39	39	67	67	39	39	39	39	84	28	28
1885—Jan. 26.....	56	56	56	56	56	56	28	28	28	45	45	28	28	28	28	56	20	20
Oct. 5.....	67	67	67	67	67	67	28	28	28	56	56	28	28	28	28	67	22	22
Nov. 18.....	84	84	84	84	84	84	39	39	39	67	67	39	39	39	39	84	28	28
1886—Mar. 10.....	83	83	83	83	83	83	39	39	39	66	66	39	39	39	39	83	28	28
Aug. 26.....	83	50	83	83	83	83	39	39	39	66	66	39	39	39	39	83	28	28
1887—Apr. 1.....	83	55	83	83	72	55	33	39	28	72	72	39	33	39	28	83	39	28
1888—Jan. 9.....	83	55	83	83	72	55	36	42	30	72	72	42	36	42	30	83	42	30
Mar. 5.....	83	55	83	83	72	55	33	39	28	72	72	39	33	39	28	83	39	28
Nov. 12.....	55	39	55	55	44	39	28	33	22	44	44	33	28	33	22	55	33	22
Dec. 17.....	83	55	83	83	72	55	33	39	28	72	72	39	33	39	28	83	39	28
1891—Apr. 9.....	83	55	83	83	72	33	28	39	28	72	72	39	33	39	28	83	39	28
1892—June 6.....	83	55	83	83	72	33	28	39	28	39	28	39	26	39	28	83	39	26

NEW YORK, N. Y., TO PEORIA, ILL.—Continued.

Boston, 1,164 miles; Philadelphia, 908 miles; Baltimore, 887 miles.

han carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																						
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
50	50	39	39	78	84	39	39	78	78	78	78	39	39	50	50	78	Sp'l rate,	50	78	78	67	67
28	28	28	28	28	28	18	18	28	28	28	28	18	18	28	28	28	do.	18	28	28	28	28
12	12	12	12	17	17	12	12	17	17	17	17	12	12	12	12	17	do.	12	17	17	17	17
34	34	28	28	50	56	28	28	50	50	50	50	28	28	34	34	50	do.	34	50	50	45	45
50	50	39	39	78	84	39	39	78	78	78	78	39	39	50	50	78	do.	50	78	78	67	67
45	45	45	45	78	84	45	45	45	45	78	78	45	45	45	45	78	do.	45	78	45	45	45
50	50	50	50	101	112	50	50	50	50	101	101	50	50	50	50	101	do.	50	101	50	50	50
50	50	50	50	90	112	50	50	50	50	90	90	50	50	50	50	90	do.	50	90	50	50	50
45	45	45	45	67	84	45	45	45	45	67	67	45	45	45	45	67	do.	45	67	45	45	45
21	21	21	21	36	50	21	21	21	21	36	36	21	21	21	21	36	do.	21	36	21	21	21
28	28	34	34	56	67	34	34	34	34	56	56	34	34	34	34	56	do.	34	56	34	34	34
39	39	39	39	67	84	39	39	39	39	67	67	39	39	39	39	67	do.	39	67	39	39	39
28	28	39	39	67	84	39	39	39	39	67	67	39	39	39	39	67	do.	39	67	39	39	39
20	20	28	28	45	56	28	28	28	28	45	45	28	28	28	28	45	do.	28	45	28	28	28
22	22	28	28	56	67	28	28	28	28	56	56	28	28	28	28	56	do.	28	56	28	28	28
28	28	39	39	67	84	39	39	39	39	67	67	39	39	39	39	67	do.	39	67	39	39	39
28	28	39	39	66	83	39	39	39	39	66	66	39	39	39	39	66	do.	39	66	39	39	39
28	28	39	39	66	83	39	39	39	39	66	66	39	39	39	39	66	do.	39	66	39	39	39
39	33	39	28	72	83	39	33	55	39	55	39	39	28	39	33	72	55	33	39	33	55	39
42	36	42	30	72	83	42	36	55	42	55	42	42	30	42	36	72	55	36	42	36	55	39
39	33	39	28	72	83	39	33	55	39	55	39	39	28	39	33	72	55	33	39	33	55	33
33	28	33	22	44	55	33	28	39	33	39	33	33	22	33	28	44	39	28	33	28	39	28
39	33	39	28	72	83	39	33	55	39	55	39	39	28	39	33	72	55	33	39	33	55	33
39	33	39	28	72	83	39	33	55	39	55	39	39	28	39	33	72	55	33	39	33	55	33
39	39	39	28	72	83	39	33	55	39	55	39	39	28	33	28	72	55	33	39	33	55	39

TABLE 20.—RATES OF FREIGHT, ALL RA...

DISTANCE VIA SHORTEST ROUTE.—From New York, 212 miles

[NOTE.—Where the rates are not specifically described as applying on less than

Date.	Commodities (rates in cents per 100 pounds).																			
	Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar	
										Castile and fancy.		Common.						
				Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.
1867—Jan. 1	188	188	188	188	188	188	188	160	160	160	160	127	127	160	160	188	82	
Nov. 5	202	202	202	202	202	202	202	170	170	170	170	138	138	170	170	202	86	
1868—Feb. 4	202	202	202	202	202	202	202	Special rate.		170	170	86	86	138	138	202	Special rate.	
June 4	188	188	188	188	188	188	188	..do....		160	160	82	82	127	127	188	..do....	
Aug. 10	149	149	149	149	149	149	149	..do....		128	128	82	82	120	120	149	..do....	
Sept. 7	188	188	188	188	188	188	188	160	160	160	160	82	82	127	127	188	..do....	
Oct. 1	70	70	70	70	70	70	70	Special rate.		60	60	50	50	55	55	70	..do....	
Dec. 7	202	202	202	202	202	202	202	..do....		170	170	86	86	138	138	202	..do....	
1869—Feb. 1	188	188	188	188	188	188	188	..do....		160	160	82	82	127	127	188	..do....	
Feb. 17	45	45	45	45	45	45	45	..do....		45	45	45	45	45	45	45	..do....	
Mar. 15	160	160	160	160	160	160	160	..do....		160	160	82	82	127	127	160	..do....	
Apr. 12	160	160	160	160	160	160	160	..do....		160	160	82	82	127	127	160	..do....	
July 1	188	188	188	188	188	188	188	..do....		160	160	82	82	127	127	188	..do....	
Aug. 11	25	25	25	25	25	25	25	..do....		25	25	25	25	25	25	25	..do....	
Aug. 28	38	38	38	38	38	38	38	..do....		38	38	38	38	38	38	38	..do....	
Aug. 30	43	43	43	43	43	43	43	..do....		43	43	43	43	43	43	43	..do....	
Sept. 23	40	40	40	40	40	40	40	..do....		40	40	40	40	40	40	40	..do....	
Sept. 24	35	35	35	35	35	35	35	..do....		35	35	35	35	35	35	35	..do....	
Oct. 4	50	50	50	50	50	50	50	..do....		50	50	50	50	50	50	50	..do....	
Oct. 9	75	75	75	75	75	75	75	..do....		75	75	75	75	75	75	75	..do....	
Nov. 1	140	140	140	140	140	140	140	..do....		125	125	80	80	100	100	140	..do....	
Nov. 29	150	150	150	150	150	150	150	..do....		130	130	80	80	100	100	150	..do....	
1870—Apr. 14	140	140	140	140	140	140	140	..do....		125	125	80	80	100	100	140	..do....	
May 4	150	150	150	150	150	150	150	..do....		130	130	80	80	100	100	150	25	
May 7	150	150	150	150	150	150	150	..do....		130	130	80	80	100	100	150	25	
June 18	112	112	112	112	112	112	112	..do....		90	90	55	55	90	90	112	20	
July 18	80	80	80	80	80	80	80	..do....		70	70	50	50	60	60	80	Special rate.	
July 18	75	75	75	75	75	75	75	..do....		70	70	50	50	60	60	75	..do....	
July 21	65	65	65	65	65	65	65	..do....		60	60	50	50	60	60	65	..do....	
July 25	65	65	65	65	65	65	65	..do....		60	60	45	45	55	55	65	..do....	
July 28	50	50	50	50	50	50	50	..do....		50	50	45	45	50	50	50	..do....	
Aug. 12	50	50	50	50	50	50	50	..do....		50	50	50	50	50	50	50	..do....	
Aug. 22	100	100	100	100	100	100	100	..do....		90	90	55	55	70	70	100	..do....	
Sept. 8	125	125	125	125	125	125	125	..do....		110	110	65	65	85	85	125	..do....	
Nov. 28	160	160	160	160	160	160	160	..do....		130	130	65	65	100	100	160	..do....	
Dec. 26	180	180	180	180	180	180	180	60	60	150	150	80	80	120	120	180	..do....	
1871—Feb. 20	150	150	150	150	150	150	150	55	55	130	130	70	70	100	100	150	35	
Mar. 7	100	100	100	100	100	100	100	45	45	90	90	55	55	70	70	100	25	
May 18	75	75	75	75	75	75	75	37	37	65	65	45	45	50	50	75	17	
June 1	100	100	100	100	100	100	100	45	45	90	90	55	55	70	70	100	25	
July 8	75	75	75	75	75	75	75	37	37	65	65	45	45	50	50	75	17	
July 28	45	45	45	45	45	45	45	32	32	45	45	45	45	45	45	45	11	
Aug. 16	40	40	40	40	40	40	40	28	28	40	40	40	40	40	40	40	10	
Aug. 21	35	35	35	35	35	35	35	26	26	35	35	35	35	35	35	35	9	
Sept. 1	30	30	30	30	30	30	30	24	24	30	30	30	30	30	30	30	8	
Nov. 27	100	100	100	100	100	100	100	45	45	90	90	55	55	70	70	100	25	
Dec. 15	125	125	125	125	125	125	125	50	50	110	110	65	65	85	85	125	30	
1872—Aug. 1	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	18	
Sept. 1	125	125	125	125	125	125	125	50	50	110	110	65	65	85	85	125	30	
Sept. 2	100	100	100	100	100	100	100	45	45	90	90	55	55	70	70	100	25	
Oct. 14	125	125	125	125	125	125	125	50	50	110	110	65	65	85	85	125	30	
1873—Apr. 14	100	100	100	100	100	100	100	45	45	90	90	60	60	75	75	100	25	
June 11	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	18	
Aug. 11	40	40	40	40	40	40	40	30	30	40	40	30	30	30	30	40	10	
Aug. 13	27	27	27	27	27	27	27	17	17	27	27	18	18	18	18	27	7	
Dec. 1	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	18	
1874—Jan. 1	100	100	100	100	100	100	100	45	45	90	90	60	60	75	75	100	25	
Aug. 3	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	18	
1875—Jan. 20	100	100	100	100	100	100	100	45	45	90	90	60	60	75	75	100	25	

FROM NEW YORK, N. Y., TO CHICAGO, ILL.

Boston, 1,001 miles; Philadelphia, 822 miles; Baltimore, 801 miles.

carload or carload quantities, they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																						
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.	Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
82	82	82	82	160	188	160	160	160	160	160	160	82	82	82	82	160	188	188	160	160	127	127
86	86	86	86	170	202	170	170	170	170	170	170	86	86	86	86	170	202	202	170	170	138	138
Special rate.		86	86	170	202	170	170	170	170	170	170	86	86	86	86	170	202	202	170	170	138	138
..do....		82	82	160	188	160	160	160	160	160	160	82	82	82	82	160	188	188	160	160	127	127
..do....		82	82	128	149	128	128	128	128	128	128	82	82	82	82	128	149	149	128	128	120	120
..do....		82	82	160	188	160	160	160	160	160	160	82	82	82	82	160	188	188	160	160	127	127
..do....		50	50	60	70	60	60	60	60	60	60	52	52	50	50	60	70	70	60	60	55	55
..do....		86	86	170	202	170	170	170	170	170	170	86	86	86	86	170	202	202	170	170	138	138
..do....		82	82	160	188	160	160	160	160	160	160	82	82	82	82	160	188	188	160	160	127	127
..do....		45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
..do....		82	82	160	160	160	160	160	160	160	160	82	82	82	82	160	160	160	160	160	127	127
..do....		82	82	160	160	Special rate.		160	160	160	160	82	82	82	82	160	160	160	160	160	127	127
..do....		82	82	160	188	..do....		160	160	160	160	82	82	82	82	160	188	188	160	160	127	127
..do....		25	25	25	25	..do....		25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
..do....		38	38	38	38	..do....		38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
..do....		43	43	43	43	..do....		43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
..do....		40	40	40	40	..do....		40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
..do....		35	35	35	35	..do....		35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
..do....		50	50	50	50	..do....		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
..do....		75	75	75	75	..do....		75	75	75	75	75	75	75	75	75	75	75	75	75	75	75
..do....		80	80	125	140	..do....		125	125	125	125	80	80	80	80	125	140	140	125	125	100	100
..do....		80	80	130	150	..do....		130	130	125	125	80	80	80	80	130	150	150	130	130	100	100
..do....		80	80	125	140	..do....		125	125	125	125	80	80	80	80	125	140	140	125	125	100	100
..do....		80	80	130	150	..do....		130	130	130	130	80	80	80	80	130	150	150	130	130	100	100
..do....		Special rate.		130	150	..do....		130	130	130	130	80	80	80	80	130	150	150	130	130	100	100
..do....		..do....		90	112	..do....		90	90	90	90	70	70	55	55	90	112	112	90	90	90	90
..do....		..do....		70	80	..do....		70	70	70	70	50	50	50	50	70	80	80	70	70	60	60
..do....		..do....		70	75	..do....		70	70	70	70	50	50	50	50	70	75	75	70	70	60	60
..do....		..do....		60	65	..do....		60	60	60	60	50	50	50	50	60	65	65	60	60	60	60
..do....		..do....		60	65	..do....		60	60	60	60	45	45	45	45	60	65	65	60	60	55	55
..do....		..do....		50	50	..do....		50	50	50	50	45	45	45	45	50	50	50	50	50	50	50
..do....		..do....		50	50	..do....		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
..do....		..do....		90	100	..do....		90	90	90	90	55	55	55	55	90	100	100	90	90	70	70
..do....		..do....		110	125	..do....		110	110	110	110	65	65	65	65	110	125	125	110	110	85	85
..do....		..do....		130	160	..do....		130	130	130	130	65	65	65	65	130	160	160	130	130	100	100
80	80	80	80	150	180	150	150	150	150	150	150	80	80	80	80	150	180	180	150	150	120	120
70	70	70	70	130	150	55	55	130	130	130	130	70	70	70	70	130	150	150	130	130	100	100
55	55	55	55	90	100	45	45	90	90	90	90	45	45	55	55	90	100	100	90	90	70	70
45	45	45	45	65	75	37	37	65	65	65	65	37	37	45	45	65	75	75	65	65	50	50
55	55	55	55	90	100	45	45	90	90	90	90	45	45	55	55	90	100	100	90	90	70	70
45	45	45	45	65	75	37	37	65	65	65	65	37	37	45	45	65	75	75	65	65	50	50
45	45	45	45	45	45	32	32	45	45	45	45	32	32	45	45	45	45	45	45	45	45	45
40	40	40	40	40	40	28	28	40	40	40	40	28	28	40	40	40	40	40	40	40	40	40
35	35	35	35	35	35	26	26	35	35	35	35	26	26	35	35	35	35	25	35	35	35	35
30	30	30	30	30	30	24	24	30	30	30	30	24	24	30	30	30	30	30	30	30	30	30
55	55	55	55	90	100	45	45	90	90	90	90	45	45	55	55	90	100	100	90	90	70	70
65	65	65	65	110	125	110	110	110	110	110	110	50	50	65	65	110	125	125	110	110	85	85
45	45	35	35	70	75	70	70	70	70	70	70	35	35	45	45	70	75	75	70	70	60	60
65	65	65	65	110	125	110	110	110	110	110	110	50	50	65	65	110	125	125	110	110	85	85
55	55	45	45	90	100	90	90	90	90	90	90	45	45	55	55	90	100	100	90	90	70	70
65	65	50	50	110	125	50	50	110	110	110	110	50	50	65	65	110	125	125	110	110	85	85
60	60	45	45	90	100	45	45	90	90	90	90	45	45	60	60	90	Spe'l rate.	60	90	90	75	75
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	.do .	45	70	70	60	60
30	30	30	30	40	40	30	30	40	40	40	40	30	30	30	30	40	.do .	30	40	40	30	30
18	18	17	17	27	27	17	17	27	27	27	27	17	17	18	18	27	.do .	18	27	27	18	18
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	.do .	45	70	70	60	60
60	60	45	45	90	100	45	45	90	90	90	90	45	45	60	60	90	.do .	60	90	90	75	75
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	.do .	45	70	90	60	60
60	60	45	45	90	100	45	45	90	90	90	90	45	45	60	60	90	.do .	60	90	90	75	75

TABLE 29.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 912 miles;

[NOTE.—Where the rates are not specifically described as applying on less than

Date	Commodities (rates in cents per 100 pounds).																		
	Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar.	
										Castile and fancy.		Common.						
				Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.
1875—Feb. 23.....	100	100	100	100	100	100	100	30	30	90	90	60	60	75	75	100	30	20
Mar. 17.....	75	75	75	75	75	75	75	30	30	70	70	45	45	60	60	75	25	15
Apr. 6.....	60	60	60	60	60	60	60	30	30	55	55	40	40	50	50	60	25	15
May 18.....	40	40	40	40	40	40	40	25	25	40	40	35	35	35	35	40	25	15
Aug. 12.....	50	50	50	50	50	50	50	20	20	40	40	25	25	30	30	50	25	15
Nov. 15.....	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	25	15
Dec. 22.....	30	30	30	30	30	30	30	15	15	25	25	20	20	20	20	30	15	10
1876—Jan. 10.....	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	25	15
June 12.....	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25	16	10
July 28.....	15	15	15	15	15	15	15	10	10	15	15	10	10	15	15	15	10	10
Dec. 18.....	50	50	50	50	50	50	50	25	25	45	45	30	30	40	40	50	25	15
1877—Mar. 12.....	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75	25	15
Oct. 8.....	75	75	75	75	75	75	40	40	40	70	70	40	40	40	40	75	25	15
Oct. 22.....	100	100	100	100	100	100	45	45	45	90	90	45	45	45	45	100	25	15
Dec. 10.....	100	100	100	100	100	100	45	45	45	80	80	45	45	45	45	100	25	15
1878—Feb. 15.....	75	75	75	75	75	75	40	40	40	60	60	40	40	40	40	75	20	15
1881—Aug. 6.....	45	45	45	45	45	45	19	19	19	32	32	19	19	19	19	45	19	12
Nov. 14.....	60	60	60	60	60	60	28	28	28	50	50	28	28	28	28	60	19	12
1882—Jan. 24.....	45	45	45	45	45	45	19	19	19	32	32	19	19	19	19	45	19	12
July 1.....	60	60	60	60	60	60	30	30	30	50	50	30	30	30	30	60	25	15
Nov. 1.....	75	75	75	75	75	75	35	35	35	60	60	35	35	35	35	75	25	15
1883—June 23.....	75	75	75	75	75	75	35	35	35	60	60	35	35	35	35	75	25	15
1885—Jan. 26.....	50	50	50	50	50	50	25	25	25	40	40	25	25	25	25	50	19	12
Oct. 5.....	60	60	60	60	60	60	25	25	25	50	50	25	25	25	25	60	19	12
Nov. 18.....	75	75	75	75	75	75	35	35	35	60	60	35	35	35	35	75	25	15
1886—Aug. 26.....	75	75	75	75	75	75	35	35	35	60	60	35	35	35	35	75	25	15
1887—Apr. 1.....	75	50	75	75	65	50	30	35	25	65	65	35	30	35	35	75	25	15
1888—Jan. 9.....	75	50	75	75	65	50	33	38½	27½	65	65	38½	33	38½	37½	75	25	15
Mar. 5.....	75	50	75	75	65	50	30	35	25	65	65	35	30	35	35	75	25	15
Nov. 12.....	50	35	50	50	40	35	25	30	20	40	40	30	25	30	30	50	20	12
Dec. 17.....	75	50	75	75	65	50	30	35	25	65	65	35	30	35	35	75	25	15
1891—Apr. 9.....	75	50	75	75	65	30	25	35	25	65	65	35	25	35	35	75	25	15
June 20.....	75	50	75	75	65	30	25	35	25	35	25	35	25	35	35	75	25	15
1892—June 6.....	75	50	75	75	65	30	25	35	25	35	25	35	25	35	35	75	25	15

NEW YORK, N. Y. TO CHICAGO, ILL.—Continued.

Boston, 1,001 miles; Philadelphia, 822 miles; Baltimore, 801 miles.

carload or carload quantities, they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																								
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
60	60	45	45	90	100	45	45	90	90	90	90	45	45	60	60	90	Sp'l rate.	60	90	90	75	75
60	60	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	.do.	45	70	70	60	60
60	60	30	30	55	60	30	30	55	55	55	55	30	30	40	40	55	.do.	40	55	55	50	50
60	60	25	25	40	40	40	40	40	40	40	40	25	25	35	35	40	.do.	35	40	40	35	35
25	25	20	20	40	50	20	20	40	40	40	40	20	20	25	25	40	.do.	25	40	40	30	30
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	.do.	45	70	70	60	60
20	20	15	15	25	30	15	15	25	25	25	25	15	15	20	20	25	.do	20	25	25	20	20
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	.do	45	70	70	60	60
16	16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	25	.do.	16	25	25	25	25
10	10	10	10	15	15	10	10	15	15	15	15	10	10	10	10	15	.do.	10	15	15	15	15
30	30	25	25	45	50	25	25	45	45	45	45	25	25	30	30	45	.do.	25	45	45	40	40
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	.do.	45	70	70	60	60
40	40	40	40	70	75	40	40	40	40	70	70	40	40	40	40	70	.do.	40	70	40	40	40
45	45	45	45	90	100	45	45	45	45	90	90	45	45	45	45	90	.do.	45	90	45	45	45
45	45	45	45	80	100	45	45	45	45	80	80	45	45	45	45	80	.do.	45	80	45	45	45
40	40	40	40	60	75	40	40	40	40	60	60	40	40	40	40	60	.do.	40	60	40	40	40
19	19	19	19	32	45	19	19	19	19	32	32	19	19	19	19	32	.do.	19	32	19	19	19
28	28	28	28	50	60	28	28	28	28	50	50	28	28	28	28	50	.do.	28	50	28	28	28
19	19	19	19	32	45	19	19	19	19	32	32	19	19	19	19	32	.do.	19	32	19	19	19
25	25	30	30	50	60	30	30	30	30	50	50	30	30	30	30	50	.do.	30	50	30	30	30
35	35	35	35	60	75	35	35	35	35	60	60	35	35	35	35	60	.do.	35	60	35	35	35
25	25	35	35	60	75	35	35	35	35	60	60	35	35	35	35	60	.do.	36	60	35	35	35
18	18	25	25	40	50	25	25	35	25	40	40	25	25	25	25	40	.do.	25	40	25	25	25
20	20	25	25	50	60	25	25	25	25	50	50	25	25	25	25	50	.do.	25	50	25	25	25
25	25	35	35	60	75	35	35	35	35	60	60	35	35	35	35	60	.do.	35	60	35	35	35
25	25	35	35	60	75	35	35	35	35	60	60	35	35	35	35	60	.do.	35	60	35	35	35
25	30	35	35	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
38½	33	38½	27½	65	75	38½	33	50	38½	50	38½	38½	27½	38½	33	65	50	33	38½	33	50	33
35	30	35	25	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
30	25	30	20	40	50	30	25	35	30	35	30	30	20	30	25	40	35	25	30	25	35	25
35	30	35	25	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	30	25	65	50	30	35	35	50	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	30	25	65	50	30	35	35	50	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	30	25	65	50	30	35	35	50	30

TABLE 21.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 297 miles

[NOTE.—Where the rates shown are not specifically described as applying on in

Date.	Commodities (rates in cents per 100 pounds).																	
				Furniture.		Stoves.		Coffee.		Soaps.				Starch.				Sugar
										Castile and fancy.		Common.						
	Dry goods.	Cotton piece goods.	Boots and shoes.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Tea.	Less than	
1867—Jan. 1	188	188	188	188	188	188	188	160	160	160	160	127	127	160	160	188		
Nov. 5	202	202	202	202	202	202	202	170	170	170	170	138	138	160	160	202		
1868—Feb. 4	202	202	202	202	202	202	202	Special rate.		170	170	86	86	138	138	202		
June 4	188	188	188	188	188	188	188	..do....		160	160	82	82	127	127	188		
Aug. 10	149	149	149	149	149	149	149	..do....		128	128	82	82	120	120	160		
Sept. 7	188	188	188	188	188	188	188	..do....		160	160	82	82	127	127	188		
Oct. 1	88	88	88	88	88	88	88	..do....		74	74	90	90	88	88	88		
Dec. 7	202	202	202	202	202	202	202	..do....		170	170	98	98	138	138	202		
1869—Feb. 1	188	188	188	188	188	188	188	..do....		160	160	82	82	127	127	188		
Mar. 15	160	160	160	160	160	160	160	..do....		160	160	82	82	127	127	160		
Apr. 12	160	160	160	160	160	160	160	..do....		160	160	82	82	127	127	160		
July 1	188	188	188	188	188	188	188	..do....		160	160	82	82	127	127	188		
Aug. 11	44	44	44	44	44	44	44	..do....		42	42	36	36	39	39	44		
Aug. 23	56	56	56	56	56	56	56	..do....		32	32	38	38	39	39	56		
Sept. 24	54	54	54	54	54	54	54	..do....		42	42	38	38	39	39	54		
Oct. 4	69	69	69	69	69	69	69	..do....		67	67	61	61	61	61	69		
Oct. 9	93	93	93	93	93	93	93	..do....		91	91	61	61	89	89	93		
Nov. 1	140	140	140	140	140	140	140	..do....		125	125	89	89	100	100	140		
Nov. 29	150	150	150	150	150	150	150	..do....		130	130	90	90	100	110	150		
1870—Apr. 14	140	140	140	140	140	140	140	..do....		125	125	90	90	100	100	140		
May 7	150	150	150	150	150	150	150	..do....		130	130	90	90	100	100	150		
June 13	112	112	112	112	112	112	112	..do....		90	90	55	55	70	70	112		
July 13	80	80	80	80	80	80	80	..do....		70	70	50	50	60	60	80		
July 25	65	65	65	65	65	65	65	..do....		60	60	45	45	55	55	65		
Aug. 12	50	50	50	50	50	50	50	..do....		50	50	50	50	50	50	50		
Aug. 22	100	100	100	100	100	100	100	..do....		90	90	55	55	70	70	100		
Nov. 22	160	160	160	160	160	160	160	..do....		130	130	65	65	100	100	160		
Dec. 26	180	180	180	180	180	180	180	60	60	150	150	90	90	120	120	180		
1871—Feb. 20	150	150	150	150	150	150	150	55	55	120	120	70	70	100	100	150		
Mar. 13	100	100	100	100	100	100	100	45	45	90	90	60	60	70	70	100		
May 15	75	75	75	75	75	75	75	37	37	65	65	45	45	50	50	75		
June 1	100	100	100	100	100	100	100	45	45	90	90	55	55	70	70	100		
July 8	75	75	75	75	75	75	75	37	37	65	65	45	45	50	50	75		
July 28	42	42	42	42	42	42	42	26	26	42	42	31	31	36	36	42		
Dec. 15	125	125	125	125	125	125	125	50	50	110	110	65	65	85	85	125		
1872—Aug. 1	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75		
Sept. 1	125	125	125	125	125	125	125	50	50	110	110	65	65	85	85	125		
Sept. 2	100	100	100	100	100	100	100	45	45	90	90	55	55	70	70	100		
Oct. 14	125	125	125	125	125	125	125	50	50	110	110	65	65	85	85	125		
1873—Apr. 14	100	100	100	100	100	100	100	45	45	90	90	60	60	75	75	100		
June 11	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75		
Aug. 13	45	45	45	45	45	45	45	35	35	45	45	35	35	35	35	45		
Aug. 21	40	40	40	40	40	40	40	30	30	40	40	30	30	30	30	40		
Sept. 17	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75		
1874—Jan. 1	100	100	100	100	100	100	100	45	45	90	90	60	60	75	75	100		
Aug. 3	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75		
1875—Jan. 20	100	100	100	100	100	100	100	45	45	90	90	60	60	75	75	100		
Mar. 17	75	75	75	75	75	75	75	30	30	70	70	45	45	60	60	75		
May 26	45	45	45	45	45	45	45	30	30	40	40	35	35	40	40	45		
Aug. 12	50	50	50	50	50	50	50	20	20	40	40	25	25	30	30	50		
Nov. 15	68	68	68	68	68	68	68	32	32	64	64	41	41	55	55	68		
Dec. 22	22	22	22	22	22	22	22	11	11	19	19	16	16	15	15	22		
1876—Jan. 10	75	75	75	75	75	75	75	30	30	70	70	35	35	60	60	75		
June 13	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25		
1877—Jan. 1	50	50	50	50	50	50	50	25	25	45	45	30	30	40	40	50		
Mar. 12	75	75	75	75	75	75	75	35	35	70	70	45	45	60	60	75		
Oct. 8	75	75	75	75	75	75	75	40	40	70	70	40	40	60	60	75		
Oct. 22	100	100	100	100	100	100	100	45	45	90	90	45	45	75	75	100		
Dec. 10	100	100	100	100	100	100	100	45	45	90	90	45	45	75	75	100		
1878—Feb. 15	75	75	75	75	75	75	40	40	40	60	60	40	40	45	45	75		

NEW YORK, N. Y., TO MILWAUKEE, WIS.

Boston, 1,086 miles; Philadelphia, 907 miles; Baltimore, 886 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																						
Molasses.		Rice.				Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.			Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.	Groceries.	Drugs.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Hardware.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
82	82	82	82	160	188	160	160	160	160	160	160	82	82	82	82	160	188	188	160	160	127	127
86	86	86	86	170	202	170	170	170	170	170	170	86	86	86	86	170	202	202	170	170	138	138
Special rate.		86	86	170	202	170	170	170	170	170	170	86	86	86	86	170	202	202	170	170	138	138
..do....		82	82	160	188	160	160	160	160	160	160	82	82	82	82	160	188	188	160	160	127	127
..do....		82	82	128	149	128	128	128	128	128	128	82	82	82	82	128	149	149	128	128	120	120
..do....		82	82	160	188	160	160	160	160	160	160	82	82	82	82	160	188	188	160	160	127	127
..do....		60	60	74	88	74	74	74	74	74	74	60	60	60	60	74	188	188	74	74	68	68
..do....		86	86	170	202	170	170	170	174	170	170	86	86	86	86	170	202	202	170	170	138	138
..do....		82	82	160	188	160	160	160	160	160	160	82	82	82	82	160	188	188	160	160	127	127
..do....		82	82	160	160	160	160	160	160	160	160	82	82	82	82	160	160	160	160	160	127	127
..do....		82	82	160	160	Special rate.		160	160	160	160	82	82	82	82	160	160	160	160	160	127	127
..do....		82	82	160	188	..do....		160	160	160	160	82	82	82	82	160	188	188	160	160	127	127
..do....		36	36	42	44	..do....		42	42	42	42	36	36	36	36	42	44	44	42	42	39	39
..do....		38	38	32	56	..do....		38	38	38	38	38	38	38	38	38	56	56	38	38	38	38
..do....		46	46	42	54	..do....		42	42	42	42	46	46	46	46	42	54	54	42	42	49	49
..do....		61	61	67	69	..do....		67	67	67	67	61	61	61	61	67	69	69	67	67	64	64
..do....		61	61	91	93	..do....		91	91	91	91	61	61	61	61	91	93	93	91	91	89	89
..do....		80	80	125	140	..do....		125	125	125	125	80	61	80	80	125	140	140	125	125	100	100
..do....		80	80	130	150	..do....		130	130	130	130	80	80	80	80	130	150	150	130	130	100	100
..do....		80	80	125	140	..do....		125	125	125	125	80	80	80	80	125	140	140	125	125	100	100
..do....		Special rate.		130	150	..do....		130	130	130	130	80	80	80	80	130	150	150	130	130	100	100
..do....		..do....		90	112	..do....		90	90	90	90	55	55	55	55	90	112	112	90	90	70	70
..do....		..do....		70	80	..do....		70	70	70	70	50	50	50	50	70	80	80	70	70	60	60
..do....		..do....		60	65	..do....		60	60	60	60	45	45	45	45	60	65	65	60	60	55	55
..do....		..do....		50	50	..do....		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
..do....		..do....		90	100	..do....		90	90	90	90	55	55	55	55	90	100	100	90	90	70	70
do....		..do....		130	160	..do....		130	130	130	130	65	65	65	65	130	160	160	130	130	100	100
80	80	80	80	150	180	150	150	150	150	150	150	80	80	80	80	150	180	180	150	150	120	120
70	70	70	70	130	150	55	55	130	130	130	130	55	55	70	70	130	150	150	130	130	100	100
55	55	55	55	90	100	45	45	90	90	90	90	45	45	55	55	90	100	100	90	90	70	70
45	45	45	45	65	75	37	37	65	65	65	65	37	37	45	45	65	75	75	65	65	50	50
55	55	55	55	90	100	45	45	90	90	90	90	45	45	55	55	90	100	100	90	90	70	70
45	45	45	45	65	75	37	37	65	65	65	65	37	37	45	45	65	75	75	65	65	50	50
31	31	31	31	42	42	26	26	42	42	42	42	26	26	31	31	42	42	42	42	42	36	36
65	65	65	65	110	125	110	110	110	110	110	110	50	50	65	65	110	125	125	110	110	85	85
45	45	35	35	70	75	70	70	70	70	70	70	35	35	45	45	70	75	75	70	70	60	60
65	65	65	65	110	125	110	110	110	110	110	110	50	50	65	65	110	125	125	110	110	85	85
55	55	45	45	90	100	90	90	90	90	90	90	45	45	55	55	90	100	100	90	90	70	70
65	65	50	50	110	125	50	50	110	110	110	110	50	50	65	65	110	125	125	110	110	85	85
60	60	45	45	90	100	45	45	90	90	90	90	45	45	60	60	90	Sp'l rate	60	90	90	75	75
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	.do.	45	70	70	60	60
35	35	35	35	45	45	35	35	45	45	45	45	35	35	35	35	45	.do.	35	45	45	35	35
30	30	30	30	40	40	30	30	40	40	40	40	50	50	30	30	40	.do.	30	40	40	30	30
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	.do.	45	70	70	60	60
60	60	45	45	90	100	45	45	90	90	90	90	45	45	60	60	90	.do.	60	90	90	75	75
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	.do.	45	70	70	60	60
60	60	45	45	90	100	45	45	90	90	90	90	45	45	60	60	90	.do.	60	90	90	75	75
30	30	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	.do.	45	70	70	60	60
30	30	30	30	40	45	30	30	40	40	40	40	30	30	35	35	40	.do.	40	40	40	40	40
25	25	20	20	40	50	20	20	40	40	40	40	20	20	25	25	40	.do.	25	40	40	30	30
41	41	32	32	64	68	32	32	64	64	64	64	32	32	41	41	64	.do.	41	64	64	55	55
16	16	11	11	19	22	11	11	19	19	19	19	11	11	16	16	19	.do.	16	19	19	15	15
25	25	20	20	70	75	20	20	70	70	70	70	20	20	25	25	70	.do.	25	70	70	60	60
16	16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	25	.do.	16	25	25	25	25
30	30	25	25	45	50	25	25	45	45	45	45	25	25	30	30	45	.do.	30	45	45	40	40
45	45	35	35	70	75	35	35	70	70	70	70	35	35	45	45	70	.do.	45	70	70	60	60
40	40	40	40	70	75	40	40	40	40	70	70	40	40	40	40	70	.do.	40	70	70	40	40
45	45	45	45	90	100	45	45	45	45	90	90	45	45	45	45	90	.do.	45	90	45	45	45
45	45	45	45	80	100	45	45	45	45	80	80	45	45	45	45	80	.do.	45	80	45	45	45
40	40	40	40	60	75	40	40	40	40	60	60	40	40	40	40	60	.do.	40	60	40	40	40

TABLE 21.—RATES OF FREIGHT, ALL RAIL, FROM NEW

DISTANCE VIA SHORTEST ROUTE.—From New York, 997 miles; Boston,

[NOTE.—Where the rates shown are not specifically described as applying on les

Date.	Commodities (rates in cents per 100 pounds.)																	
	Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar.	
										Castile and fancy.		Common.						
				Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.
1881—Aug. 6.....	45	45	45	45	45	45	19	19	19	32	32	19	19	19	19	45	19	15
Nov. 14.....	60	60	60	60	60	60	28	28	28	50	50	28	28	28	28	60	28	[illegible]
1882—Jan. 24.....	45	45	45	45	45	45	19	19	19	32	32	19	19	19	19	45	19	[illegible]
July 1.....	60	60	60	60	60	60	30	30	30	50	50	30	30	30	30	60	[illegible]	[illegible]
Nov. 1.....	75	75	75	75	75	75	35	35	35	60	60	35	35	35	35	75	[illegible]	[illegible]
1883—June 22.....	75	75	75	75	75	75	35	35	35	60	60	35	35	35	35	75	[illegible]	[illegible]
1885—Jan. 26.....	50	50	50	50	50	50	25	25	25	40	40	25	25	25	25	50	[illegible]	[illegible]
Oct. 5.....	60	60	60	60	60	60	25	25	25	50	50	25	25	25	25	60	[illegible]	[illegible]
Nov. 18.....	75	75	75	75	75	75	35	35	35	60	60	35	35	35	35	75	[illegible]	[illegible]
1886—Aug. 26.....	75	50	75	75	75	75	35	35	35	60	60	35	35	35	35	75	[illegible]	[illegible]
1887—Apr. 1.....	75	50	75	75	65	50	30	25	25	65	65	35	30	35	25	75	[illegible]	[illegible]
1888—Jan. 9.....	75	50	75	75	65	50	33	33½	27½	65	65	38½	33	33½	27½	75	[illegible]	[illegible]
Mar. 5.....	75	50	75	75	65	50	30	35	25	65	65	35	30	35	25	75	[illegible]	[illegible]
Nov. 12.....	50	35	50	50	40	35	25	30	20	40	40	30	25	30	20	50	[illegible]	[illegible]
Dec. 17.....	75	50	75	75	65	50	30	35	25	65	65	35	30	35	25	75	[illegible]	[illegible]
1889—Feb. 18.....	75	50	75	75	65	50	30	35	25	65	65	35	30	35	25	75	[illegible]	[illegible]
1891—Apr. 9.....	75	50	75	75	60	30	25	35	25	65	65	35	30	35	25	75	[illegible]	[illegible]
1892—June 6.....	75	50	75	75	60	30	25	35	25	35	25	35	25	35	25	75	25	[illegible]

YORK, N. Y., TO MILWAUKEE, WIS.—Continued.

1,086 miles; Philadelphia, 907 miles; Baltimore, 886 miles—Continued.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																					
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
19	19	19	19	32	45	19	19	19	19	32	32	19	19	19	19	32	Sp'l rate.	19	32	19	19	19
28	28	28	28	50	60	28	28	28	28	50	50	28	28	28	28	50	.do .	28	50	28	28	28
19	19	19	19	32	45	19	19	19	19	32	32	19	19	19	19	32	.do .	19	32	19	19	19
25	25	30	30	50	60	30	30	30	30	50	50	30	30	30	30	50	.do .	30	50	30	30	30
35	35	35	35	60	75	35	35	35	35	60	60	35	35	35	35	60	.do .	35	60	35	35	35
25	25	35	35	60	75	35	35	35	35	60	60	35	35	35	35	60	.do .	35	60	35	35	35
18	18	25	25	40	50	25	25	25	25	40	40	25	25	25	25	40	.do .	25	40	25	25	25
20	20	25	25	50	60	25	25	25	25	50	50	25	25	25	25	50	.do .	25	50	25	25	25
25	25	25	25	60	75	35	35	35	35	60	60	35	35	35	35	60	.do .	35	60	35	35	35
25	25	35	35	60	75	35	35	35	35	60	60	35	35	35	35	60	.do .	35	60	35	35	35
35	30	35	35	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
38½	33	38½	27½	65	75	38½	33	50	38½	38½	27½	38½	27½	38½	33	65	50	27½	38½	33	50	33
35	30	35	25	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
30	25	30	20	40	50	30	25	35	30	35	30	30	20	30	25	40	35	25	30	25	35	25
30	25	35	25	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	30	25	65	50	30	35	30	50	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	30	25	65	50	30	35	30	50	30

TABLE 22.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 998 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.	Commodities (rates in cents per 100 pounds).																			
				Furniture.		Stoves.		Coffee.		Soap.				Starch.				Sugar	
										Castile and fancy.		Common.							
	Dry goods.	Cotton piece goods.	Boots and shoes.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Tea.	Less than carloads.	Carloads.
1867—Jan. 1	205	205	205	205	205	205	205	176	176	176	176	139	139	176	176	205	90	
May 15	217	217	217	217	217	217	217	185	185	185	185	148	148	185	185	217	94	
Nov. 5	235	235	235	235	235	235	235	198	198	198	198	161	161	198	198	235	98	
1868—Feb. 4	235	235	235	235	235	235	235	Special rate.		198	198	99	99	161	161	235	Special rate.	
June 4	217	217	217	217	217	217	217	..do....		185	185	94	94	148	148	217	..do	
Aug. 10	173	173	173	173	173	173	173	..do....		148	148	94	94	138	138	173	..do	
Sept. 7	217	217	217	217	217	217	217	..do....		185	185	94	94	148	148	217	..do	
Oct. 1	110	110	110	110	110	110	110	..do....		94	94	73	73	84	84	110	..do	
Oct. 22	59	59	59	59	59	59	59	..do....		59	59	59	59	59	59	59	..do	
Dec. 7	235	235	235	235	235	235	235	..do....		198	198	99	99	161	161	235	..do	
1869—Feb. 1	217	217	217	217	217	217	217	..do....		185	185	94	94	148	148	217	..do	
Feb. 17	57	57	57	57	57	57	57	..do....		57	57	57	57	57	57	57	..do	
Mar. 15	185	185	185	185	185	185	185	..do....		185	185	94	94	148	148	185	..do	
Apr. 12	185	185	185	185	185	185	185	..do....		185	185	94	94	148	148	185	..do	
July 1	217	217	217	217	217	217	217	..do....		185	185	94	94	148	148	217	..do	
Aug. 11	35	35	35	35	35	35	35	..do....		35	35	35	35	35	35	35	..do	
Sept. 22	45	45	45	45	45	45	45	..do....		45	45	45	45	45	45	45	..do	
Oct. 4	60	60	60	60	60	60	60	..do....		60	60	60	60	60	60	60	..do	
Oct. 9	87	87	87	87	87	87	87	..do....		87	87	60	60	87	87	87	..do	
Nov. 1	163	163	163	163	163	163	163	..do....		148	148	94	94	117	117	163	..do	
Nov. 29	176	176	176	176	176	176	176	..do....		151	151	94	94	117	117	176	..do	
1870—Apr. 14	176	176	176	176	176	176	176	..do....		151	151	94	94	117	117	176	45	
May 7	176	176	176	176	176	176	176	..do....		151	151	94	94	117	117	176	45	
June 18	124	124	124	124	124	124	124	..do....		99	99	63	63	80	80	124	45	
July 13	92	92	92	92	92	92	92	..do....		80	80	55	55	68	68	92	45	
July 21	80	80	80	80	80	80	80	..do....		70	70	55	55	68	68	80	45	
July 25	75	75	75	75	75	75	75	..do....		65	65	48	48	60	60	75	45	
July 28	55	55	55	55	55	55	55	..do....		55	55	48	48	55	55	55	45	
Aug. 12	57	57	57	57	57	57	57	..do....		57	57	57	57	57	57	57	45	
Aug. 22	110	110	110	110	110	110	110	..do....		99	99	63	63	80	80	110	45	
Sept. 8	145	145	145	145	145	145	145	..do....		129	129	76	76	99	99	145	45	
Nov. 28	178	178	178	178	178	178	178	..do....		144	144	72	72	113	113	178	45	
Dec. 26	202	202	202	202	202	202	202	67	67	168	168	89	89	134	134	202	67	
1871—Feb. 20	168	168	168	168	168	168	168	62	62	144	144	79	79	113	113	168	62	
Mar. 7	110	110	110	110	110	110	110	48	48	99	99	63	63	88	88	110	48	
Mar. 18	113	113	113	113	113	113	113	51	51	101	101	63	63	79	79	113	51	
May 18	84	84	84	84	84	84	84	41	41	72	72	50	50	57	57	84	41	
June 1	113	113	113	113	113	113	113	51	51	101	101	63	63	79	79	113	51	
July 8	84	84	84	84	84	84	84	41	41	72	72	50	50	57	57	84	41	
July 28	53	53	53	53	53	53	53	37	37	53	53	50	50	53	53	53	37	
Aug. 16	45	45	45	45	45	45	45	32	32	45	45	45	45	45	45	45	32	
Aug. 22	40	40	40	40	40	40	40	29	29	40	40	40	40	40	40	40	29	
Sept. 1	35	35	35	35	35	35	35	27	27	35	35	35	35	35	35	35	27	
Nov. 27	113	113	113	113	113	113	113	51	51	101	101	63	63	63	63	113	51	
Dec. 15	140	140	140	140	140	140	140	56	56	123	123	73	73	95	95	140	56	
1872—April 27	140	140	140	140	140	140	140	56	56	123	123	73	73	95	95	140	56	
Aug. 1	84	84	84	84	84	84	84	39	39	78	78	50	50	67	67	84	39	
Sept. 1	140	140	140	140	140	140	140	56	56	123	123	73	73	95	95	140	56	
Sept. 2	112	112	112	112	112	112	112	50	50	101	101	63	63	78	78	112	50	
Oct. 14	140	140	140	140	140	140	140	56	56	123	123	73	73	95	95	140	56	
1873—April 14	112	112	112	112	112	112	112	50	50	101	101	67	67	84	84	112	50	
June 11	84	84	84	84	84	84	84	39	39	78	78	50	50	67	67	84	39	
Aug. 11	45	45	45	45	45	45	45	34	34	45	45	34	34	34	34	45	34	
Sept. 17	84	84	84	84	84	84	84	39	39	78	78	50	50	67	67	84	39	
1874—Jan. 1	112	112	112	112	112	112	112	50	50	101	101	67	67	84	84	112	50	
Aug. 3	84	84	84	84	84	84	84	39	39	78	78	50	50	67	67	84	39	
1875—Jan. 20	112	112	112	112	112	112	112	50	50	101	101	67	67	84	84	112	50	
Mar. 17	112	112	112	112	112	112	112	34	34	101	101	67	67	84	84	112	50	
April 1	105	105	105	105	105	105	105	48	48	95	95	63	63	81	81	105	48	
April 6	112	112	112	112	112	112	112	50	50	101	101	67	67	84	84	112	50	
Aug. 13	80	80	80	80	80	80	80	30	30	60	60	37	37	46	46	60	30	
Dec. 22	55	55	55	55	55	55	55	22	22	45	45	23	23	23	23	23	23	

NEW YORK, N Y., TO PEORIA, ILL.

Boston, 1,164 miles; Philadelphia, 908 miles; Baltimore, 887 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																							
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
90	90	90	90	176	205	176	176	176	176	176	176	90	90	90	90	176	205	205	176	176	139	139
94	94	94	94	185	217	185	185	185	185	185	185	94	94	94	94	185	217	217	185	185	148	148
99	99	99	99	198	235	198	198	198	198	198	198	99	99	99	99	198	235	235	198	198	161	161
Special rate.		99	99	198	235	198	198	198	198	198	198	99	99	99	99	198	235	235	198	198	161	161
..do....		94	94	185	217	185	185	185	185	185	185	94	94	94	94	185	217	217	185	185	148	148
..do....		94	94	148	173	148	148	148	148	148	148	94	94	94	94	148	173	173	148	148	138	138
..do....		94	94	185	217	185	185	185	185	185	185	94	94	94	94	185	217	217	185	185	148	148
..do....		73	73	94	110	94	94	94	94	94	94	73	73	73	73	94	110	110	94	94	84	84
..do....		59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
..do....		99	99	198	235	198	198	198	198	198	198	99	99	99	99	198	235	235	198	198	161	161
..do....		94	94	185	217	185	185	185	185	185	185	94	94	94	94	185	217	217	185	185	148	148
..do....		57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57
..do....		94	94	185	185	185	185	185	185	185	185	94	94	94	94	185	185	185	185	185	148	148
..do....		94	94	185	185	Special rate.		185	185	185	185	94	94	94	94	185	185	185	185	185	148	148
..do....		94	94	185	217	..do....		185	185	185	185	94	94	94	94	185	217	217	185	185	148	148
..do....		35	35	35	35	..do....		35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
..do....		45	45	45	45	..do....		45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
..do....		60	60	60	60	..do....		60	60	60	60	60	60	60	60	60	60	60	60	60	60	60
..do....		60	60	87	87	..do....		87	87	87	87	60	60	60	60	87	87	87	87	87	87	87
..do....		94	94	146	163	..do....		146	146	146	146	94	94	94	94	146	163	163	146	146	117	117
..do....		94	94	151	176	..do....		151	151	151	151	94	94	94	94	151	176	176	151	151	117	117
..do....		94	94	151	176	..do....		151	151	151	151	94	94	94	94	151	176	176	151	151	117	117
..do....		Special rate.		151	176	..do....		151	151	151	151	94	94	94	94	151	176	176	151	151	117	117
..do....		..do....		99	124	..do....		99	99	99	99	63	63	63	63	99	124	124	99	99	80	80
..do....		..do....		80	92	..do....		80	80	80	80	55	55	55	55	80	92	92	80	80	68	68
..do....		..do....		70	80	..do....		70	70	70	70	55	55	55	55	70	80	80	70	70	63	63
..do....		..do....		65	75	..do....		65	65	65	65	48	48	48	48	65	75	75	65	65	60	60
..do....		..do....		55	55	..do....		55	55	55	55	48	48	48	48	55	55	55	55	55	55	55
..do....		..do....		57	57	..do....		57	57	57	57	57	57	57	57	57	57	57	57	57	57	57
..do....		..do....		99	110	..do....		99	99	99	99	63	63	63	63	99	110	110	99	99	80	80
..do....		..do....		129	145	..do....		129	129	129	129	76	76	76	76	129	145	145	129	129	99	99
..do....		..do....		144	178	..do....		144	144	144	144	72	72	72	72	144	178	178	144	144	113	113
89	89	89	89	168	202	168	168	168	168	168	168	89	89	89	89	168	202	202	168	168	134	134
79	79	79	79	144	168	62	62	144	144	144	144	62	62	79	79	144	168	168	144	144	118	118
63	63	63	63	99	110	48	48	99	99	99	99	48	48	63	63	99	110	110	99	99	80	80
62	62	62	62	101	113	51	51	101	101	101	101	51	51	62	62	101	113	113	101	101	79	79
50	50	50	50	72	84	41	41	72	72	72	72	41	41	50	50	72	84	84	72	72	57	57
62	62	62	62	101	113	51	51	101	101	101	101	51	51	62	62	101	113	113	101	101	79	79
50	50	50	50	72	84	41	41	72	72	72	72	41	41	50	50	72	84	84	72	72	57	57
50	50	50	50	58	53	37	37	53	53	53	53	37	37	50	50	58	53	53	53	53	53	53
45	45	45	45	45	45	32	32	45	45	45	45	32	32	45	45	45	45	45	45	45	45	45
40	40	40	40	40	40	29	29	40	40	40	40	29	29	40	40	40	40	40	40	40	40	40
35	35	35	35	35	27	27	35	35	35	35	27	27	35	35	35	35	35	35	35	35	35	35
62	62	62	62	101	113	51	51	101	101	101	101	51	51	62	62	101	113	113	101	101	79	79
73	73	73	73	123	140	123	123	123	123	123	123	56	56	73	73	123	140	140	123	123	95	95
73	73	56	56	123	140	123	123	123	123	123	123	56	56	73	73	123	140	140	123	123	95	95
50	50	39	39	78	84	78	78	78	78	78	78	39	39	50	50	78	84	84	78	78	67	67
73	73	73	73	123	140	56	56	123	123	123	123	56	56	73	73	123	140	140	123	123	95	95
62	62	50	50	101	112	101	101	101	101	101	101	50	50	62	62	101	112	112	101	101	78	78
73	73	56	56	123	140	56	56	123	123	123	123	56	56	73	73	123	140	140	123	123	95	95
67	67	50	50	101	112	50	50	101	101	101	101	50	50	67	67	101	Sp'l rate.	67	101	101	84	84
50	50	39	39	78	84	39	39	78	78	78	78	39	39	50	50	78	.do .	50	78	78	67	67
34	34	34	34	45	45	34	34	45	45	45	45	34	34	34	34	45	.do .	34	45	45	34	34
50	50	39	39	78	84	39	39	78	78	78	78	39	39	50	50	78	.do .	50	78	78	67	67
67	67	50	50	101	112	50	50	101	101	101	101	50	50	67	67	101	.do .	67	101	101	84	84
50	50	39	39	78	84	39	39	78	78	78	78	39	39	50	50	78	.do .	50	78	78	67	67
67	67	50	50	101	112	50	50	101	101	101	101	50	50	67	67	101	.do .	67	101	101	84	84
34	34	50	50	101	112	50	50	101	101	101	101	50	50	67	67	101	.do .	67	101	101	84	84
62	62	48	48	96	106	48	48	95	95	95	95	48	48	62	62	95	.do .	62	95	95	81	81
67	67	50	50	101	112	50	50	101	101	101	101	50	50	67	67	101	.do .	67	101	101	84	84
37	37	30	30	60	80	30	30	60	60	60	60	30	30	37	37	60	.do .	37	60	60	46	46
32	32	32	32	45	55	32	32	45	45	45	45	32	32	32	32	45	.do .	32	45	45	36	36

TABLE 22.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 998 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.	Commodities (rates in cents per 100 pounds).																		
	Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar	
										Castile and fancy.		Common.						
				Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads	Carloads
1876—Jan. 10.....	84	84	84	84	84	84	84	39	39	78	78	50	50	67	97	84	39	39
June 12.....	28	28	28	28	28	28	28	18	18	28	28	28	28	28	28	28	28	28
July 28.....	17	17	17	17	17	17	17	12	12	17	17	12	12	17	17	17	12	12
Dec. 18.....	56	56	56	56	56	56	56	28	28	50	50	45	45	45	45	56	28	28
1877—Mar. 12.....	84	84	84	84	84	84	84	39	39	78	78	50	50	67	67	84	39	39
Oct. 8.....	84	84	84	84	84	84	45	45	45	78	78	45	45	45	45	84	45	45
Oct. 22.....	112	112	112	112	112	112	50	50	50	101	101	50	50	50	50	112	50	50
Dec. 30.....	112	112	112	112	112	112	50	50	50	90	90	50	50	50	50	112	50	50
1878—Feb. 15.....	84	84	84	84	84	84	45	45	45	67	67	45	45	45	45	84	45	45
1881—Aug. 6.....	50	50	50	50	50	50	21	21	21	36	36	21	21	21	21	50	21	21
1882—July 1.....	67	67	67	67	67	67	34	34	34	56	56	34	34	34	34	67	28	28
Nov. 1.....	84	84	84	84	84	84	39	39	39	67	67	39	39	39	39	84	39	39
1883—June 22.....	84	84	84	84	84	84	39	39	39	67	67	39	39	39	39	84	39	39
1885—Jan. 26.....	56	56	56	56	56	56	28	28	28	45	45	28	28	28	28	56	28	28
Oct. 5.....	67	67	67	67	67	67	28	28	28	56	56	28	28	28	28	67	28	28
Nov. 18.....	84	84	84	84	84	84	39	39	39	67	67	39	39	39	39	84	39	39
1886—Mar. 10.....	83	83	83	83	83	83	39	39	39	66	66	39	39	39	39	83	39	39
Aug. 26.....	83	50	83	83	83	83	39	39	39	66	66	39	39	39	39	83	28	28
1887—Apr. 1.....	83	55	83	83	72	55	33	39	28	72	72	39	33	39	28	83	39	28
1888—Jan. 9.....	83	55	83	83	72	55	36	42	30	72	72	42	36	42	30	83	42	30
Mar. 5.....	83	55	83	83	72	55	33	39	28	72	72	39	33	39	28	83	39	28
Nov. 12.....	55	39	55	55	44	39	28	33	22	44	44	33	28	33	22	55	33	22
Dec. 17.....	83	55	83	83	72	55	33	39	28	72	72	39	33	39	28	83	39	28
1891—Apr. 9.....	83	55	83	83	72	33	28	39	28	72	72	39	33	39	28	83	39	28
1892—June 6.....	83	55	83	83	72	33	28	39	28	39	28	39	28	39	28	83	39	28

NEW YORK, N. Y., TO PEORIA, ILL.—Continued.

Boston, 1,164 miles; Philadelphia, 908 miles; Baltimore, 887 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																							
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
50	50	39	39	78	84	39	39	78	78	78	78	39	39	50	50	78	Sp'l rate,	50	78	78	67	67
28	28	28	28	28	28	18	18	28	28	28	28	18	18	28	28	28	.do.	18	28	28	28	28
12	12	12	12	17	17	12	12	17	17	17	17	12	12	12	12	17	.do.	12	17	17	17	17
34	34	28	28	50	56	28	28	50	50	50	50	28	28	34	34	50	.do.	34	50	50	45	45
50	50	39	39	78	84	39	39	78	78	78	78	39	39	50	50	78	.do.	50	78	78	67	67
45	45	45	45	78	84	45	45	45	45	78	78	45	45	45	45	78	.do.	45	78	45	45	45
50	50	50	50	101	112	50	50	50	50	101	101	50	50	50	50	101	.do.	50	101	50	50	50
50	50	50	50	90	112	50	50	50	50	90	90	50	50	50	50	90	.do.	50	90	50	50	50
45	45	45	45	67	84	45	45	45	45	67	67	45	45	45	45	67	.do.	45	67	45	45	45
21	21	21	21	36	50	21	21	21	21	36	36	21	21	21	21	36	.do.	21	36	21	21	21
28	28	34	34	56	67	34	34	34	34	56	56	34	34	34	34	56	.do.	34	56	34	34	34
39	39	39	39	67	84	39	39	39	39	67	67	39	39	39	39	67	.do.	39	67	39	39	39
28	28	39	39	67	84	39	39	39	39	67	67	39	39	39	39	67	.do.	39	67	39	39	39
20	20	28	28	45	56	28	28	28	28	45	45	28	28	28	28	45	.do.	28	45	28	28	28
22	22	28	28	56	67	28	28	28	28	56	56	28	28	28	28	56	.do.	28	56	28	28	28
28	28	39	39	67	84	39	39	39	39	67	67	39	39	39	39	67	.do.	39	67	39	39	39
28	28	39	39	66	83	39	39	39	39	66	66	39	39	39	39	66	.do.	39	66	39	39	39
28	28	39	39	66	83	39	39	39	39	66	66	39	39	39	39	66	.do.	39	66	39	39	39
39	33	39	28	72	83	39	33	55	39	55	39	39	28	39	33	72	55	33	39	33	55	33
42	36	42	30	72	83	42	36	55	42	55	42	42	30	42	36	72	55	36	42	36	55	36
39	33	39	28	72	83	39	33	55	39	55	39	39	28	39	33	72	55	33	39	33	55	33
33	28	33	22	44	55	33	28	39	33	39	33	33	22	33	28	44	39	28	33	28	39	28
39	33	39	28	72	83	39	33	55	39	55	39	39	28	39	33	72	55	33	39	33	55	33
39	33	39	28	72	83	39	33	55	39	55	39	39	28	33	28	72	55	33	39	33	55	33
39	33	39	28	72	83	39	33	55	39	55	39	39	28	33	28	72	55	33	39	33	55	33

TABLE 23.—RATES OF FREIGHT, ALL RAIL FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 1,065 miles;

[Note.—Where the rates shown are not specifically described as applying on less

Date.		Commodities (rates in cents per 100 pounds).																	
		Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar	
											Castile and fancy.		Common.						
					Less than carload.	Carloads.	Less than carload.	Carloads.	Less than carload.	Carloads.	Less than carload.	Carloads.	Less than carload.	Carloads.	Less than carload.	Carloads.		Less than carload.	Carloads.
1867—Jan.	1	242	242	242	242	242	242	242	190	190	190	190	140	140	190	190	242	100	20
Nov.	5	262	262	262	262	262	262	262	221	221	221	221	181	181	221	221	262	114	14
1868—Feb.	4	262	262	262	262	262	262	262	Special rate.		221	221	114	114	181	181	262	Special rate.	
June	4	242	242	242	242	262	262	262	..do....		207	207	108	108	168	168	242	..do....	
Aug.	10	194	194	194	194	194	194	194	..do....		168	168	108	108	157	157	194	..do....	
Sept.	7	242	242	242	242	262	262	262	..do....		207	207	108	108	168	168	242	..do....	
Dec.	7	262	262	262	262	262	262	262	..do....		221	221	114	114	181	181	262	..do....	
1869—Feb.	1	242	242	242	242	242	242	242	..do....		207	207	108	108	168	168	242	..do....	
Feb.	4	230	230	230	230	230	230	230	..do....		197	197	103	103	157	157	230	..do....	
Mar.	15	197	197	197	197	197	197	197	..do....		197	197	103	103	157	157	197	..do....	
May	12	197	197	197	197	197	197	197	..do....		197	197	103	103	157	158	197	..do....	
July	1	230	230	230	230	230	230	230	..do....		197	197	103	103	157	157	230	..do....	
Aug.	11	35	35	35	35	35	35	35	..do....		35	25	35	35	35	35	35	..do....	
Aug.	23	56	56	56	56	56	56	56	..do....		56	56	56	56	56	56	56	..do....	
Aug.	30	58	58	58	58	58	58	58	..do....		58	58	58	58	58	58	58	..do....	
Sept.	22	53	53	53	53	53	53	53	..do....		53	53	53	53	53	53	53	..do....	
Sept.	24	50	50	50	50	50	50	50	..do....		50	50	50	50	50	50	50	..do....	
Oct.	4	70	70	70	70	70	70	70	..do....		70	70	70	70	70	70	70	..do....	
Oct.	9	100	100	100	100	100	100	100	..do....		100	100	70	70	100	100	100	..do....	
Nov.	1	178	178	178	178	178	178	178	..do....		159	159	104	104	129	129	178	..do....	
Nov.	29	191	191	191	191	191	191	191	..do....		166	166	104	104	129	129	191	..do....	
1870—Apr.	14	191	191	191	191	191	191	191	..do....		166	166	104	104	129	129	191	55	
May	7	191	191	191	191	191	191	191	..do....		166	166	104	104	129	129	191	30	
July	13	100	100	100	100	100	100	100	..do....		90	90	65	65	75	75	100	50	
July	18	90	90	90	90	90	90	90	..do....		85	85	65	65	75	75	90	50	
July	21	80	80	80	80	80	80	80	..do....		75	75	65	65	70	70	80	50	
Aug.	22	125	125	125	125	125	125	125	..do....		113	113	74	74	93	93	125	55	
Sept.	8	165	165	165	165	165	165	165	..do....		145	145	89	89	113	113	165	55	
Nov.	28	200	200	200	200	200	200	200	..do....		163	163	84	84	129	129	200	55	
Dec.	26	226	226	226	226	226	226	226	79	79	189	189	103	103	151	151	226	70	
1871—Feb.	20	189	189	189	189	189	189	189	73	73	163	163	92	92	129	129	189	73	
Mar.	7	125	125	125	125	125	125	125	54	54	113	113	74	74	93	93	125	54	
1871—Mar.	13	129	129	129	129	129	129	129	62	62	116	116	73	73	92	92	129	62	
May	18	97	97	97	97	97	97	97	51	51	84	84	60	60	68	68	97	51	
June	1	129	129	129	129	129	129	129	62	62	116	116	73	73	92	92	129	62	
July	8	97	97	97	97	97	97	97	51	51	84	84	60	60	68	68	97	51	
	28	60	60	60	60	60	60	60	45	45	60	60	60	60	60	60	60	45	
Aug.	16	50	50	50	50	50	50	50	35	35	50	50	50	50	50	50	50	35	
	22	45	45	45	45	45	45	45	35	35	45	45	45	45	45	44	45	35	
Sept.	1	40	40	40	40	40	40	40	32	32	40	40	40	40	40	40	40	32	
Nov.	27	129	129	129	129	129	129	129	62	62	116	116	73	73	92	92	129	62	
Dec.	15	158	158	158	158	158	158	158	67	67	140	140	85	85	110	110	158	67	
1872—Apr.	27	158	158	158	158	158	158	158	67	67	140	140	85	85	110	110	158	67	
Aug.	1	97	97	97	97	97	97	97	49	49	91	91	61	61	79	79	97	49	
Sept.	1	158	158	158	158	158	158	158	67	67	140	140	85	85	110	110	158	67	
	2	128	128	128	128	128	128	128	61	61	116	116	73	73	91	91	128	61	
Oct.	14	158	158	158	158	158	158	158	67	67	140	140	85	85	110	110	158	67	
1873—Apr.	14	128	128	128	128	128	128	128	61	61	116	116	79	79	97	97	128	61	
June	11	97	97	97	97	97	97	97	49	49	91	91	61	61	79	79	97	49	
Aug.	11	55	55	55	55	55	55	55	43	43	55	55	43	43	43	43	55	43	
Sept.	17	97	97	97	97	97	97	97	49	49	91	91	61	61	79	79	97	49	
1874—Jan.	1	128	128	128	128	128	128	128	61	61	116	116	79	79	97	97	128	61	
Aug.	3	97	97	97	97	97	97	97	35	35	91	91	61	61	79	79	97	35	
1875—Jan.	20	128	128	128	128	128	128	128	61	61	116	116	79	79	97	97	128	61	
Feb.	22	128	128	128	128	128	128	128	43	43	116	116	79	79	97	97	128	61	
Mar.	17	97	97	97	97	97	97	97	34	34	91	91	61	61	79	79	97	49	
Apr.	6	60	60	60	60	60	60	60	30	30	55	55	40	40	50	50	60	30	
May	26	70	70	70	70	70	70	70	30	30	70	70	50	50	50	50	70	30	
	29	43	43	43	43	43	43	43	31	31	43	43	26	26	30	30	43	30	
Aug.	12	67	67	67	67	67	67	67	31	31	55	55	30	30	43	43	67	30	
Dec.	23	43	43	43	43	43	43	43	25	25	30	30	21	21	25	25	43	30	
1876—July	26	25	25	25	25	25	25	25	19	19	25	25	19	19	25	25	25	30	

NEW YORK, N. Y., TO ST. LOUIS MO.

Boston, 1,186 miles; Philadelphia, 975 miles; Baltimore, 934 miles.

han carload or carload quantities they apply on shipments regardless of quantity.

Commodities (rates in cents in 100 pounds).

Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carload.	Carloads.	Less than carload.	Carloads.			Less than carload.	Carloads.	Less than carload.	Carloads.	Less than carload.	Carloads.	Less than carload.	Carloads.	Less than carload.	Carloads.		Less than carload.	Carloads.	Less than carload.	Carloads.	Less than carload.	Carloads.
100	100	100	100	190	242	190	190	190	190	190	190	100	100	100	100	190	242	242	190	190	140	140
114	114	114	114	221	262	221	221	221	221	221	221	114	114	114	114	221	262	262	221	221	181	181
Special rate.		114	114	221	262	221	221	221	221	221	221	114	114	114	114	221	262	262	221	221	181	181
..do....		108	108	207	242	207	207	207	207	207	207	108	108	108	108	207	242	242	207	207	168	168
..do....		108	108	168	194	168	168	168	168	168	168	108	108	108	108	168	194	194	168	168	157	158
..do....		108	108	207	242	207	207	207	207	207	207	108	108	108	108	207	242	242	207	207	168	168
..do....		114	114	221	262	221	221	221	221	221	221	114	114	114	114	221	262	262	221	221	181	181
..do....		108	108	207	242	207	207	207	207	207	207	108	108	108	108	207	242	242	207	207	168	168
..do....		103	103	197	230	197	197	197	197	197	197	103	103	103	103	197	230	230	197	197	157	157
..do....		103	103	197	197	197	197	197	197	197	197	103	103	103	103	197	197	197	197	197	157	157
..do....		103	103	197	197	Special rate.		197	197	197	197	103	103	103	103	197	197	197	197	197	157	157
..do....		103	103	197	230	..do....		197	197	197	197	103	103	103	103	197	230	230	197	197	157	157
..do....		35	35	35	35	..do....		35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
..do....		56	56	56	56	..do....		56	56	56	56	56	56	56	56	56	56	56	56	56	56	56
..do....		58	58	58	58	..do....		58	58	58	58	58	58	58	58	58	58	58	58	58	58	58
..do....		53	53	53	53	..do....		53	53	53	53	53	53	53	53	53	53	53	53	53	53	53
..do....		50	50	50	50	..do....		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
..do....		70	70	70	70	..do....		70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
..do....		70	70	100	100	..do....		100	100	100	100	70	70	70	70	100	100	100	100	100	100	100
..do....		104	104	159	178	..do....		159	159	159	159	104	104	104	104	159	178	178	159	159	129	129
..do....		104	104	166	191	..do....		166	166	166	166	104	104	104	104	166	191	191	166	166	129	129
..do....		104	104	166	191	..do....		166	166	166	166	104	104	104	104	166	191	191	166	166	129	129
..do....		Special rate.		166	191	..do....		166	166	166	166	104	104	104	104	166	191	191	166	166	129	129
..do....		..do....		90	100	..do....		90	90	90	90	75	75	65	65	90	100	100	90	90	75	75
..do....		..do....		85	90	..do....		85	85	85	85	75	75	65	65	85	90	90	85	85	75	75
..do....		..do....		75	80	..do....		75	75	75	75	65	65	65	65	75	80	80	75	75	70	70
..do....		..do....		113	125	..do....		113	113	113	113	74	74	74	74	113	125	125	113	113	93	93
..do....		..do....		145	165	..do....		145	145	145	145	89	89	89	89	145	165	165	145	145	113	113
..do....		..do....		163	200	..do....		163	163	163	163	84	84	84	84	163	200	200	163	163	129	129
103	103	103	103	189	226	189	189	189	189	189	189	103	103	103	103	189	226	226	189	189	151	151
92	92	92	92	163	189	73	73	163	163	163	163	73	73	92	92	163	189	189	163	163	129	129
74	74	74	74	113	125	54	54	113	113	113	113	54	54	74	74	113	125	125	113	113	93	93
73	73	73	73	116	129	62	62	116	116	116	116	62	62	73	73	116	129	129	116	116	92	92
60	60	60	60	84	97	51	51	84	84	84	84	51	51	60	60	84	97	97	84	84	68	68
73	73	73	73	116	129	62	62	116	116	116	116	62	62	73	73	116	129	129	116	116	92	92
60	60	60	60	84	97	51	51	84	84	84	84	51	51	60	60	84	97	97	84	84	68	68
60	60	60	60	60	60	45	45	60	60	60	60	45	45	60	60	60	60	60	60	60	60	60
50	50	50	50	50	50	35	35	50	50	50	50	35	35	50	50	50	50	50	50	50	50	50
45	45	45	45	45	45	35	35	45	45	45	45	35	35	45	45	45	45	45	45	45	45	45
40	40	40	40	40	40	32	32	40	40	40	40	32	22	40	40	40	40	40	40	40	40	40
73	73	73	73	116	129	62	62	116	116	116	116	62	62	73	73	116	129	129	116	116	92	93
85	85	85	85	140	158	140	140	140	140	140	140	67	67	85	85	140	158	158	140	140	110	110
85	85	67	67	140	158	140	140	140	140	140	140	67	67	85	85	140	158	158	140	140	110	110
61	61	49	49	91	97	91	91	91	91	91	91	49	49	61	61	91	97	97	91	91	79	79
85	85	85	85	140	158	140	140	140	140	140	140	67	57	85	85	140	158	158	140	140	110	110
73	73	61	61	116	128	116	116	116	116	116	116	61	61	73	73	116	128	128	116	116	91	91
85	85	67	67	140	158	67	67	140	140	140	140	67	67	85	85	140	158	158	140	140	110	110
79	79	61	61	116	128	61	61	116	116	116	116	61	61	79	79	116	Spc'l rate.	79	116	116	97	97
61	61	49	49	91	97	49	49	91	91	91	91	49	49	61	61	91	.do.	61	91	91	79	79
43	43	43	43	55	55	43	43	55	55	55	55	43	43	43	43	55	.do.	43	55	55	43	43
61	61	49	49	91	97	49	49	91	91	91	91	49	49	61	61	91	.do.	61	91	91	79	79
79	79	61	61	116	128	61	61	116	116	116	116	61	61	79	79	116	.do.	79	116	116	97	97
61	61	35	35	91	97	35	35	91	91	91	94	35	35	61	61	91	.do.	61	91	91	79	79
79	79	61	61	116	128	61	61	116	116	116	116	61	61	79	79	116	.do.	79	116	116	97	97
79	79	61	61	116	128	61	61	116	116	116	116	61	61	79	79	116	.do.	79	116	116	97	97
24	24	49	49	91	97	49	49	91	19	91	91	49	49	61	61	91	.do.	61	91	91	79	79
40	40	30	55	60	30	30	30	55	55	55	55	30	30	40	40	55	.do.	40	55	55	50	50
50	50	36	36	70	70	36	36	70	70	70	70	36	36	50	50	70	.do.	50	70	70	50	50
36	36	31	31	43	43	31	31	43	43	43	43	31	31	36	36	43	.do.	36	43	43	39	39
36	36	31	31	55	67	31	31	55	55	55	55	31	31	36	36	55	.do.	36	55	55	43	43
31	31	25	25	36	43	25	25	36	36	36	36	25	25	31	31	36	.do.	31	36	36	31	31
19	19	19	19	25	25	19	19	25	25	25	25	19	19	19	19	25	.do.	19	25	25	25	25

TABLE 23.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 1,065 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.	Commodities (rates in cents per 100 pounds).																	
	Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar	
										Castile and fancy.		Common.						
				Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.
1876—Dec. 18.....	67	67	67	67	67	67	67	36	36	61	61	43	43	55	55	67	36	36
1877—Mar. 12.....	97	97	97	97	97	97	97	49	49	91	91	61	61	79	79	97	49	49
Oct. 8.....	97	97	97	97	97	97	55	55	55	91	91	55	55	55	55	97	55	55
Oct. 23.....	128	128	128	128	128	128	61	61	61	116	116	61	61	61	61	128	61	61
Dec. 10.....	127	127	127	127	127	127	60	60	60	102	102	60	60	60	60	127	60	60
1878—Feb. 15.....	96	96	96	96	96	96	54	54	54	78	78	54	54	54	54	96	54	54
1879—Sept. 15.....	94	94	94	94	94	94	53	53	53	76	76	53	53	53	53	94	53	53
1881—Aug. 6.....	59	59	59	59	59	59	28	28	28	43	43	28	28	28	28	59	28	28
Nov. 14.....	76	76	76	76	76	76	38	38	38	65	65	38	38	38	38	76	38	38
1882—July 1.....	76	76	76	76	76	76	41	41	41	65	65	41	41	41	41	76	35	35
Nov. 1.....	94	94	94	94	94	94	47	47	47	76	76	47	47	47	47	94	47	47
1883—June 22.....	94	94	94	94	94	94	47	47	47	76	76	47	47	47	47	94	35	35
1885—Jan. 26.....	65	65	65	65	65	65	35	35	35	53	53	35	35	35	35	65	28	28
Oct. 5.....	76	76	76	76	76	76	35	35	35	65	65	35	35	35	35	76	29	29
Nov. 18.....	94	94	94	94	94	94	47	47	47	76	76	47	47	47	47	94	35	35
1886—Mar. 10.....	92	92	92	92	92	92	46	46	46	75	75	46	46	46	46	92	34	34
Aug. 26.....	92	63	92	92	92	92	46	46	46	75	75	46	46	46	46	92	34	34
1887—Apr. 1.....	92	63	92	92	92	75	46	46	34	75	75	41	35	41	29	92	34	34
1888—Aug. 15.....	87	58	87	87	75	58	38	41	29	75	75	41	35	41	29	87	41	29
1891—Apr. 9.....	87	58	87	87	75	35	29	41	29	75	75	41	35	41	29	87	41	29
1892—June 6.....	87	58	87	87	75	35	29	41	29	41	29	41	29	41	29	87	41	27

NEW YORK, N. Y., TO ST. LOUIS, MO.—Continued.

Boston, 1,186 miles; Philadelphia, 975 miles; Baltimore, 934 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																					
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
43	43	36	36	61	67	36	36	61	61	61	61	36	36	43	43	61	Sp'l rate.	43	61	61	55	55
61	61	49	49	91	97	49	49	91	91	91	91	49	49	61	61	91	.do.	61	91	91	79	79
55	55	55	55	91	97	55	55	55	55	91	91	55	55	55	55	91	.do.	55	91	55	55	55
61	61	61	61	116	128	61	61	61	61	116	116	61	61	61	61	116	.do.	61	116	61	61	61
60	60	60	60	102	127	60	60	60	60	102	102	60	60	60	60	102	.do.	60	102	60	60	60
54	54	54	54	78	96	54	55	54	54	78	78	54	54	54	54	78	.do.	54	78	54	54	54
53	53	53	53	76	94	53	53	53	53	76	76	53	53	53	53	76	.do.	53	76	53	53	53
28	28	28	28	43	59	28	28	28	28	43	43	28	28	28	28	43	.do.	28	43	28	28	28
38	38	38	38	65	76	38	38	38	38	65	65	38	38	38	38	65	.do.	38	65	38	38	38
35	35	41	41	65	76	41	41	41	41	65	65	41	41	41	41	65	.do.	41	65	41	41	41
47	47	47	47	76	94	47	47	47	47	76	76	47	47	47	47	76	.do.	47	76	47	47	47
35	35	47	47	76	94	47	47	47	47	76	76	47	47	47	47	76	.do.	47	76	47	47	47
26	26	35	35	53	65	35	35	35	35	53	53	35	35	35	35	53	.do.	35	53	35	35	35
29	29	35	35	65	76	35	35	35	35	65	65	35	35	35	35	65	.do.	35	65	35	35	35
35	35	47	47	76	94	47	47	47	47	76	76	47	47	47	47	76	.do.	47	76	47	47	47
34	34	46	46	75	92	46	46	46	46	75	75	46	46	46	46	75	92	46	75	46	46	46
34	34	46	46	75	92	46	46	46	46	75	75	46	46	46	46	75	92	46	75	46	46	46
34	34	46	34	75	92	46	46	46	46	75	46	46	46	46	46	75	75	46	46	46	46	46
41	35	41	29	75	87	41	35	58	41	58	41	41	29	41	35	75	58	35	41	35	51	35
41	35	41	29	75	87	41	35	58	41	58	41	41	29	35	29	75	58	35	41	35	51	35
41	35	41	29	75	87	41	35	58	41	58	41	41	29	35	29	75	58	35	41	35	51	35

TABLE 24.—RATES OF FREIGHT, ALL RAIL,

DISTANCE VIA SHORTEST ROUTE.—From New York, 1,100 miles:

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.	Commodities. (Rates in cents per 100 pounds.)																	
	Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar	
										Castile and fancy.		Common.						
				Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.
1867—Jan. 1	250	250	250	250	250	250	250	195	195	195	195	142	142	195	195	250	100	100
Nov. 5	273	273	273	273	273	273	273	229	229	229	229	185	185	229	229	273	114	114
1868—Feb. 4	273	273	273	273	273	273	273	Special rate.		229	229	114	114	185	185	273	Special rate.	
June 4	250	250	250	250	250	250	250	..do....		214	214	108	108	171	171	250	..do....	
Aug. 10	200	200	200	200	200	200	200	..do....		171	171	108	108	160	160	200	..do....	
Sept. 7	250	250	250	250	250	250	250	..do....		214	214	108	108	171	171	250	..do....	
Oct. 1	95	95	95	95	95	95	95	..do....		85	85	70	70	75	75	95	..do....	
Dec. 7	273	273	273	273	273	273	273	..do....		229	229	114	114	185	185	273	..do....	
1869—Feb. 1	250	250	250	250	250	250	250	..do....		214	214	108	108	171	171	250	..do....	
17	87	87	87	87	87	87	87	..do....		87	87	87	87	87	87	87	..do....	
Mar. 15	214	214	214	214	214	214	214	..do....		214	214	108	108	171	171	214	..do....	
Apr. 12	214	214	214	214	214	214	214	..do....		214	214	108	108	171	171	214	..do....	
July 1	250	250	250	250	250	250	250	..do....		214	214	108	108	171	171	250	..do....	
Aug. 11	42	42	42	42	42	42	42	..do....		42	42	42	42	42	42	42	..do....	
Oct. 9	100	100	100	100	100	100	100	..do....		100	100	70	70	100	100	100	..do....	
13	168	168	168	168	168	168	168	..do....		134	134	88	88	102	102	168	..do....	
Nov. 1	188	188	188	188	188	188	188	..do....		168	168	108	108	134	134	188	..do....	
20	202	202	202	202	202	202	202	..do....		174	174	108	108	134	134	202	..do....	
1870—Apr. 14	202	202	202	202	202	202	202	..do....		174	174	108	108	134	134	202	80	80
May 7	202	202	202	202	202	202	202	..do....		174	174	108	108	134	134	202	80	80
June 18	142	142	142	142	142	142	142	..do....		114	114	72	72	92	92	142	50	50
Aug. 12	64	64	64	64	64	64	64	..do....		64	64	64	64	64	64	64	Special rate.	
22	126	126	126	126	126	126	126	..do....		114	114	72	72	92	92	126	..do....	
Sept. 8	168	168	168	168	168	168	168	..do....		148	148	88	88	114	114	168	..do....	
Nov. 28	204	204	204	204	204	204	204	..do....		164	164	82	82	129	129	204	..do....	
Dec. 26	231	231	231	231	231	231	231	76	76	192	192	102	102	153	153	231	76	76
1871—Feb. 20	192	192	192	192	192	192	192	70	70	164	164	90	90	129	129	192	70	70
Mar. 7	126	126	126	126	126	126	126	56	56	114	114	72	72	92	92	126	56	56
18	129	129	129	129	129	129	129	59	59	115	115	70	70	90	90	129	58	58
May 18	96	96	96	96	96	96	96	47	47	82	82	57	57	65	65	96	47	47
June 1	129	129	129	129	129	129	129	59	59	115	115	70	70	90	90	129	58	58
July 8	96	96	96	96	96	96	96	47	47	82	82	57	57	65	65	96	47	47
July 26	76	76	76	76	76	76	76	41	41	70	70	51	51	59	59	76	41	41
28	65	65	65	65	65	65	65	45	45	65	65	57	57	65	65	65	45	45
Aug. 16	51	51	51	51	51	51	51	36	36	51	51	51	51	51	51	51	36	36
22	45	45	45	45	45	45	45	35	35	45	45	45	45	45	45	45	35	35
Sept. 1	40	40	40	40	40	40	40	34	34	40	40	40	40	40	40	40	34	34
Nov. 27	129	129	129	129	129	129	129	59	59	115	115	70	70	90	90	129	58	58
Dec. 15	160	160	160	160	160	160	160	64	64	141	141	83	83	109	109	160	64	64
1872—Apr. 27	160	160	160	160	160	160	160	64	64	141	141	83	83	109	109	160	64	64
Aug. 1	96	96	96	96	96	96	96	45	45	90	90	58	58	77	77	96	45	45
Sept. 1	160	160	160	160	160	160	160	64	64	141	141	83	83	109	109	160	64	64
2	128	128	128	128	128	128	128	58	58	115	115	70	70	90	90	128	58	58
Oct. 14	160	160	160	160	160	160	160	64	64	141	141	83	83	109	109	160	64	64
1873—Apr. 14	128	128	128	128	128	128	128	58	58	115	115	77	77	96	96	128	58	58
July 22	96	96	96	96	96	96	96	45	45	90	90	58	58	77	77	96	45	45
Aug. 12	64	64	64	64	64	64	64	38	38	64	64	38	38	51	51	64	38	38
Sept. 3	51	51	51	51	51	51	51	38	38	51	51	38	38	38	38	51	38	38
17	96	96	96	96	96	96	96	45	45	90	90	58	58	77	77	96	45	45
1874—Jan. 1	128	128	128	128	128	128	128	58	58	115	115	77	77	96	96	128	58	58
Aug. 3	96	96	96	96	94	96	96	45	45	90	90	58	58	77	77	96	45	45
1875—Jan. 20	128	128	128	128	128	128	128	58	58	115	115	77	77	96	96	128	58	58
Mar. 17	96	96	96	96	96	96	96	38	38	90	90	58	58	77	77	96	38	38
June 1	70	70	70	70	70	70	70	36	36	70	70	50	50	50	50	70	36	36
Aug. 12	64	64	64	64	64	64	64	26	26	51	51	32	32	38	38	64	26	26
Nov. 15	96	96	96	96	96	96	96	45	45	90	90	58	58	77	77	96	45	45
Dec. 22	38	38	38	38	38	38	38	19	19	32	32	26	26	26	26	38	19	19
1876—Jan. 10	96	96	96	96	96	96	96	45	45	90	90	58	58	77	77	96	45	45
June 2	96	96	96	96	96	96	96	26	26	90	90	58	58	77	77	96	26	26
12	32	32	32	32	32	32	32	21	21	32	32	21	21	26	26	32	21	21
Dec. 18	64	64	64	64	64	64	64	32	32	58	58	26	26	51	51	64	32	32

FROM NEW YORK, N. Y., TO CAIRO, ILL.

Boston, 1,221 miles; Philadelphia, 1,010 miles; Baltimore, 943 miles.

thancarload or carload quantities they apply on shipments regardless of quantity.]

Commodities. (Rates in cents per 100 pounds.)																							
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
100	100	100	100	195	250	195	195	195	195	195	195	100	100	100	100	195	250	250	195	195	142	142
114	114	114	114	229	273	229	229	229	229	229	229	114	114	114	114	229	273	273	229	229	185	185
Special rate.		114	114	229	273	229	229	229	229	229	229	114	114	114	114	229	273	273	229	229	185	185
..do....		108	108	214	250	214	214	214	214	214	214	108	108	108	108	214	250	250	214	214	171	171
..do....		108	108	171	200	171	171	171	171	171	171	108	108	108	108	171	200	200	171	171	160	160
..do....		108	108	214	250	214	214	214	214	214	214	108	108	108	108	214	250	250	214	214	171	171
..do....		70	70	85	95	85	85	85	85	85	85	70	70	70	70	85	95	95	85	85	78	78
..do....		114	114	229	273	229	229	229	229	229	229	114	114	114	114	229	273	273	229	229	185	185
..do....		108	108	214	250	214	214	214	214	214	214	108	108	108	108	214	250	250	214	214	171	171
..do....		87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87
..do....		108	108	214	214	214	214	214	214	214	214	108	108	108	108	214	214	214	214	214	171	171
..do....		108	108	214	214	Special rate.		214	214	214	214	108	108	108	108	214	214	214	214	214	171	171
..do....		108	108	214	250	..do....		214	214	214	214	214	214	108	108	214	250	250	214	214	171	171
..do....		42	42	42	42	..do....		42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
..do....		70	70	100	100	..do....		100	100	100	100	70	70	70	70	100	100	100	100	100	100	100
..do....		88	88	134	168	..do....		134	134	134	134	88	88	88	88	134	168	168	134	134	102	102
..do....		108	108	168	188	..do....		168	168	168	168	108	108	108	108	168	188	188	168	168	134	134
..do....		108	108	174	202	..do....		174	174	174	174	108	108	108	108	174	202	202	174	174	134	134
..do....		108	108	174	202	..do....		174	174	174	174	108	108	108	108	174	202	202	174	174	134	134
..do....		Special rate.		174	202	..do....		174	174	174	174	108	108	108	108	174	202	202	174	174	134	134
..do....		..do....		114	142	..do....		114	114	114	114	72	72	72	72	114	142	142	114	114	92	92
..do....		..do....		64	64	..do....		64	64	64	64	64	64	64	64	64	64	64	64	64	64	64
..do....		..do....		114	126	..do....		114	114	114	114	72	72	72	72	114	126	126	114	114	92	92
..do....		..do....		148	168	..do....		148	148	148	148	88	88	88	88	148	168	168	148	148	114	114
..do....		..do....		164	204	..do....		164	164	164	164	82	82	82	82	164	204	204	164	164	129	129
102	102	102	102	192	231	192	192	192	192	192	192	102	102	102	102	192	231	231	192	192	153	153
90	90	90	90	164	192	70	70	164	164	164	164	70	70	90	90	164	192	192	164	164	129	129
72	72	72	72	114	126	56	56	114	114	114	114	56	56	72	72	114	126	126	114	114	92	92
70	70	70	70	115	129	59	59	115	115	115	115	59	59	70	70	115	129	129	115	115	90	90
57	57	57	57	82	96	47	47	82	82	82	82	47	47	57	57	82	96	96	82	82	65	65
70	70	70	70	115	129	59	59	115	115	115	115	59	59	70	70	115	129	129	115	115	90	90
57	57	57	57	82	96	47	47	82	82	82	82	47	47	57	57	82	96	96	82	82	65	65
51	51	51	51	70	76	41	41	70	70	70	70	41	41	51	51	70	76	76	70	70	59	59
57	57	57	57	65	65	45	45	65	65	65	65	45	45	57	57	65	65	45	65	65	65	65
51	51	51	51	51	51	36	36	51	51	51	51	36	36	51	51	51	51	51	51	51	51	51
45	45	45	45	45	45	35	35	45	45	45	45	35	35	45	45	45	45	45	45	45	45	45
40	40	40	40	40	40	34	34	40	40	40	40	34	34	40	40	40	40	40	40	40	40	40
70	70	70	70	115	129	59	59	115	115	115	115	59	59	70	70	115	129	129	115	115	90	90
83	83	83	83	141	160	141	141	141	141	141	141	64	64	83	83	141	160	160	141	141	109	109
83	83	64	64	141	160	141	141	141	141	141	141	64	64	83	83	141	160	160	141	141	109	109
58	58	45	45	90	96	90	90	90	90	90	90	45	45	58	58	90	96	96	90	90	77	77
83	83	83	83	141	160	141	141	141	141	141	141	64	64	83	83	141	160	160	141	141	109	109
70	70	58	58	115	128	115	115	115	115	115	115	58	58	70	70	115	128	128	115	115	90	90
83	83	64	64	141	160	64	64	141	141	141	141	64	64	83	83	141	160	160	141	141	109	109
77	77	58	58	115	128	58	58	115	115	115	115	58	58	77	77	115	Sp'l rate.	77	115	115	96	96
58	58	45	45	90	96	45	45	90	90	90	90	45	45	58	58	90	.do.	58	90	90	77	77
38	38	38	38	64	64	38	38	64	64	64	64	38	38	38	38	64	.do.	38	64	64	51	51
38	38	38	38	51	51	38	38	51	51	51	51	38	28	38	38	51	.do.	38	51	51	38	38
58	58	45	45	90	96	45	45	90	90	90	90	45	45	58	58	90	.do.	58	90	90	77	77
77	77	58	58	115	128	58	58	115	115	115	115	58	58	77	77	115	.do.	77	115	115	96	96
58	58	45	45	90	96	45	45	90	90	90	90	45	45	58	58	90	.do.	58	90	90	77	77
77	77	58	58	115	128	58	58	115	115	115	115	58	58	77	77	115	.do.	77	115	115	96	96
38	38	45	45	90	96	45	45	90	90	90	90	45	45	58	58	90	.do.	58	90	90	77	77
50	50	36	36	70	70	36	36	70	70	70	70	36	36	50	50	70	.do.	50	70	70	50	50
32	32	26	26	51	64	26	26	51	51	51	51	26	26	32	32	51	.do.	32	51	51	38	38
58	58	45	45	90	90	45	45	90	90	90	90	45	45	58	58	90	.do.	58	90	90	77	77
26	26	19	19	32	38	19	19	32	32	32	32	19	19	26	26	32	.do.	26	32	32	26	26
58	58	45	45	90	96	45	45	90	90	90	90	45	45	58	58	90	.do.	58	90	90	77	77
32	32	26	26	90	96	26	26	90	90	90	90	26	26	32	32	90	.do.	32	90	90	77	77
21	21	21	21	32	32	21	21	32	32	32	32	21	21	21	21	32	.do.	21	32	32	32	32
38	38	32	32	58	64	32	32	58	58	58	58	32	32	38	38	58	.do.	38	58	58	51	51

TABLE 24.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 1,100 miles;

[NOTE.—Where the rates shown are not specifically described as applying on

Date.	Commodities (rates in cents per 100 pounds.)																	
	Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar	
										Castile and fancy.		Common.						
				Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.
1877—Mar. 13.....	96	96	96	96	96	96	96	45	45	90	90	58	58	77	77	96	45	45
Oct. 8.....	96	96	96	96	96	96	51	51	51	90	90	51	51	51	51	96	51	[illegible]
22.....	128	128	128	128	128	128	58	58	58	115	115	58	58	58	58	128	58	[illegible]
Dec. 19.....	128	128	128	128	128	128	58	58	58	102	102	58	58	58	58	128	58	[illegible]
1878—Feb. 15.....	96	96	96	96	96	96	51	51	51	77	77	51	51	51	51	96	51	[illegible]
1881—Aug. 6.....	58	58	58	58	58	58	25	25	25	41	41	25	25	25	25	56	25	[illegible]
Nov. 14.....	77	77	77	77	77	77	36	36	36	64	64	36	36	36	36	77	36	[illegible]
1882—Jan. 24.....	58	58	58	58	58	58	25	25	25	41	41	25	25	25	25	56	25	[illegible]
July 1.....	77	77	77	77	77	77	38	38	38	64	64	38	38	38	38	77	32	[illegible]
Nov. 1.....	96	96	96	96	96	96	45	45	45	77	77	45	45	45	45	96	45	[illegible]
1883—June 22.....	96	96	96	96	96	96	45	45	45	77	77	45	45	45	45	96	32	[illegible]
1885—Jan. 26.....	64	64	64	64	64	64	32	32	32	51	51	32	32	32	32	64	32	[illegible]
June 1.....	51	51	51	51	51	51	23	23	23	38	38	23	23	23	23	51	19	[illegible]
Oct. 5.....	77	77	77	77	77	77	32	32	32	64	64	32	32	32	32	77	26	[illegible]
Nov. 18.....	96	96	96	96	96	96	45	45	45	77	77	45	45	45	45	96	32	[illegible]
1886—Mar. 10.....	90	90	90	90	90	90	42	42	42	72	72	42	42	42	42	96	30	[illegible]
Aug. 26.....	90	60	90	90	90	90	42	42	42	72	72	42	42	42	42	96	30	[illegible]
1887—Apr. 1.....	90	60	90	90	78	60	36	42	30	78	78	42	36	42	30	96	42	[illegible]
1888—Jan. 9.....	90	60	90	90	78	60	40	46	33	78	78	46	40	46	33	96	46	[illegible]
Mar. 5.....	90	60	90	90	78	60	36	42	30	78	78	42	36	42	30	96	42	[illegible]
Nov. 13.....	60	42	60	60	48	42	30	36	24	48	48	36	30	36	24	96	36	[illegible]
Dec. 17.....	90	60	90	90	78	60	36	42	30	78	78	42	36	42	30	96	42	[illegible]
1891—Apr. 9.....	90	60	90	90	78	36	30	42	30	78	78	42	36	42	30	96	42	[illegible]
1892—Mar. 16.....	90	60	90	90	78	36	30	42	30	42	30	42	30	42	30	96	42	[illegible]
May 2.....	90	60	90	90	78	36	30	42	30	42	30	42	30	42	30	96	42	[illegible]
June 6.....	90	60	90	90	78	36	30	42	30	42	30	42	30	42	30	96	42	[illegible]

NEW YORK, N. Y., TO CAIRO, ILL.—Continued.

Boston, 1,221 miles; Philadelphia, 1,010 miles; Baltimore, 943 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds.)																							
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
58	58	45	45	90	96	45	45	90	90	90	90	45	45	58	58	90	Sp'l rate.	58	90	90	77	77
51	51	51	51	90	96	51	51	51	51	90	90	51	51	51	51	90	.do.	51	90	51	51	51
58	58	58	58	115	128	58	58	58	58	115	115	58	58	58	58	115	.do.	58	115	58	58	58
58	58	58	58	102	128	58	58	58	58	102	102	58	58	58	58	102	.do.	58	102	58	58	58
51	51	51	51	77	96	51	51	51	51	77	77	51	51	51	51	77	.do.	51	77	51	51	51
25	25	25	25	41	58	25	25	25	25	41	41	25	25	25	25	41	.do.	25	41	25	25	25
36	36	36	36	64	77	36	36	36	36	64	64	36	36	36	36	64	.do.	36	64	36	36	36
25	25	25	25	41	58	25	25	25	25	41	41	25	25	25	25	41	.do.	25	41	25	25	25
32	32	38	38	64	77	38	38	38	38	64	64	38	38	38	38	64	.do.	38	64	38	38	38
45	45	45	45	77	96	45	45	45	45	77	77	45	45	45	45	77	.do.	45	77	45	45	45
32	32	45	45	77	96	45	45	45	45	77	77	45	45	45	45	77	.do.	45	77	45	45	45
23	23	32	32	51	64	32	32	32	32	51	51	32	32	32	32	51	.do.	32	51	32	32	32
19	19	23	23	38	51	23	23	23	23	38	38	23	23	23	23	38	.do.	23	38	23	23	23
26	26	32	32	64	77	32	32	32	32	64	64	32	32	32	32	64	.do.	32	64	32	32	32
32	32	45	45	77	96	45	45	45	45	77	77	45	45	45	45	77	.do.	45	77	45	45	45
30	30	42	42	72	90	42	42	42	42	72	72	42	42	42	42	72	.do.	42	72	42	42	42
30	30	42	42	72	90	42	42	42	42	72	72	42	42	42	42	72	.do.	42	72	42	42	42
42	36	42	42	78	90	42	36	60	42	60	42	42	30	42	36	78	60	36	42	36	60	36
46	40	46	33	78	90	46	40	60	46	60	46	46	33	46	40	78	60	40	46	40	60	40
42	36	42	30	78	90	42	36	60	42	60	42	42	30	42	36	78	60	36	42	36	60	36
36	30	36	24	48	60	36	30	42	36	42	36	36	24	36	30	48	42	30	36	30	42	30
42	36	42	30	78	90	42	36	60	42	60	42	42	30	42	36	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	50	42	42	30	36	30	78	60	36	42	36	60	36

TABLE 26.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 999 miles:

[NOTE.—Where the rates shown are not specifically described as applying on

Date.	Commodities (rates in cents per 100 pounds).																			
				Furniture.		Stoves.		Coffee.		Soaps.				Starch.				Sugar	
										Castile and fancy.		Common.							
	Dry goods.	Cotton piece goods.	Boots and shoes.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Tea.	Less than carloads.	Carloads.
1867—Jan. 1	255	255	255	255	255	255	255	215	215	215	215	170	170	215	215	255	115	
May 15	262	262	262	262	262	262	262	223	223	223	223	177	177	223	223	262	122	
Nov. 5	280	280	280	280	280	280	280	234	234	234	234	189	189	234	234	280	129	
1868—Feb. 4	280	280	280	280	280	280	280	Special rate.		223	223	126	126	189	189	280	Special rate.	
June 4	262	262	262	262	262	262	262	..do....		223	223	122	122	177	177	262	..do....	
Aug. 10	205	205	205	205	205	205	205	..do....		176	176	100	100	140	140	205	..do....	
Oct. 1	108	108	108	108	108	108	108	..do....		96	96	75	75	87	87	108	..do....	
Dec. 7	205	205	205	2 5	205	205	205	..do....		176	176	100	100	140	140	205	..do....	
1869—Feb. 17	70	70	70	70	70	70	70	..do....		69	69	65	65	67	67	70	..do....	
Mar. 15	176	176	176	176	176	176	176	..do....		176	176	100	100	140	140	176	..do....	
Aug. 2	88	88	88	88	88	88	88	..do....		83	83	75	75	77	77	88	..do....	
Aug. 3	70	70	70	70	70	70	70	..do....		69	69	65	65	67	67	70	..do....	
Aug. 11	53	53	53	53	53	53	53	..do....		51	51	48	48	49	49	53	..do....	
Aug. 23	80	80	80	80	80	80	80	..do....		75	75	68	68	71	71	80	..do....	
Sept. 22	73	73	73	73	73	73	73	..do....		68	68	61	61	64	64	73	..do....	
Sept. 24	70	70	70	70	70	70	70	..do....		65	65	58	58	61	61	70	..do....	
Nov. 1	187	187	187	187	187	187	187	..do....		165	165	109	109	134	134	187	..do....	
1870—May 7	187	187	187	187	187	187	187	..do....		165	165	109	109	134	134	187	..do....	
July 15	123	123	123	123	123	123	123	..do....		107	107	75	75	89	89	123	..do....	
July 21	120	120	120	120	120	120	120	..do....		108	108	79	79	94	94	120	..do....	
July 25	117	117	117	117	117	117	117	..do....		102	102	72	72	88	88	117	..do....	
July 28	100	100	100	100	100	100	100	..do....		93	93	72	72	81	81	100	..do....	
Aug. 12	100	100	100	100	100	100	100	..do....		93	93	79	79	84	84	100	..do....	
Aug. 24	141	141	141	141	141	141	141	..do....		125	125	80	80	101	101	141	..do....	
Sept. 8	173	173	173	173	173	173	173	..do....		153	153	94	94	120	120	173	..do....	
Nov. 28	204	204	204	204	204	204	204	..do....		168	168	90	90	134	134	204	..do....	
Dec. 26	204	204	204	204	204	204	204	81	81	168	168	90	90	134	134	204	81	
1871—Feb. 20	182	182	182	182	182	182	182	72	72	159	159	96	96	129	129	182	72	
Mar. 7	141	141	141	141	141	141	141	64	64	125	125	80	80	101	101	141	64	
Mar. 27	143	143	143	143	143	143	143	67	67	128	128	80	80	102	102	143	67	
Mar. 29	135	135	135	135	135	135	135	66	66	122	122	66	66	97	97	135	66	
Apr. 29	115	115	115	115	115	115	115	56	56	104	104	65	65	83	83	115	56	
July 26	95	95	95	95	95	95	95	53	53	90	90	62	62	77	77	95	53	
July 28	74	74	74	74	74	74	74	51	51	72	72	63	63	69	69	74	51	
Aug. 16	72	72	72	72	72	72	72	45	45	70	70	63	63	67	67	72	45	
Aug. 17	70	70	70	70	70	70	70	45	45	70	70	63	63	67	67	70	45	
Aug. 21	85	85	85	85	85	85	85	53	53	175	175	65	65	70	70	85	53	
Nov. 27	115	115	115	115	115	115	115	56	56	104	104	65	65	83	83	115	56	
Dec. 15	168	168	168	168	168	168	168	72	72	149	149	91	91	117	117	168	72	
1872—Apr. 27	167	167	167	167	167	167	167	72	72	148	148	91	91	116	116	167	72	
Aug. 1	110	110	110	110	110	110	110	53	53	102	102	68	68	88	88	110	53	
Aug. 16	101	101	101	101	101	101	101	50	50	95	95	64	64	83	83	101	50	
Sept. 1	167	167	167	167	167	167	167	72	72	148	148	91	91	116	116	167	72	
Sept. 9	137	137	137	137	137	137	137	64	64	123	123	78	78	98	98	137	64	
Oct. 14	163	163	163	163	163	163	163	69	69	144	144	89	89	114	114	163	69	
1873—Apr. 14	137	137	137	137	137	137	137	64	64	123	123	84	84	103	103	137	64	
June 11	110	110	110	110	110	110	110	53	53	102	102	68	68	88	88	110	53	
Aug. 12	73	73	73	73	73	73	73	48	48	70	70	52	52	56	56	73	48	
Sept. 17	110	110	110	110	110	110	110	53	53	102	102	68	68	88	88	110	53	
1874—Jan. 1	137	137	137	137	137	137	137	64	64	123	123	84	84	103	103	137	64	
Feb. 17	115	115	115	115	115	115	115	75	75	105	105	75	75	90	90	115	60	
Aug. 3	101	101	101	101	101	101	101	50	50	95	95	64	64	83	83	101	50	
1875—Jan. 20	115	115	115	115	115	115	115	75	75	105	105	75	75	90	90	115	60	
Mar. 17	101	101	101	101	101	101	101	44	44	95	95	64	64	83	83	101	44	
June 15	59	59	59	59	59	59	59	53	53	59	59	51	53	53	53	59	41	
Sept. 9	67	67	67	67	67	67	67	34	34	63	63	42	42	50	50	67	34	
Nov. 15	103	103	103	103	103	103	103	50	50	95	95	63	63	82	82	103	50	
Dec. 22	56	56	56	56	56	56	56	29	29	48	48	36	36	39	39	56	29	
Dec. 24	115	115	115	115	115	115	115	60	60	105	105	75	75	90	90	115	60	
1876—Jan. 10	103	103	103	103	103	103	103	50	50	95	95	63	63	82	82	103	50	
June 2	103	103	103	103	103	103	103	34	34	95	95	42	42	82	82	103	34	
June 12	51	51	51	51	51	51	51	30	30	48	48	32	32	45	45	51	30	
Dec. 18	77	77	77	77	77	77	77	40	40	69	69	47	47	60	60	77	40	
1877—Mar. 12	125	125	125	125	125	125	125	55	55	115	115	69	69	100	100	125	55	

NEW YORK, N. Y., TO MEMPHIS, TENN.

Boston, 1,371 miles; Philadelphia, 1,038 miles; Baltimore, 972 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities, rates in cents per 100 pounds.																							
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthen ware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
125	125	125	125	225	270	235	235	235	235	235	235	125	125	125	125	235	270	270	235	235	175	175
125	125	125	125	222	256	222	222	222	222	222	222	125	125	125	125	222	256	256	222	222	175	175
Special rate.		125	125	222	256	222	222	222	222	222	222	125	125	125	125	222	256	256	222	222	175	175
..do....		125	125	200	234	200	200	200	200	200	200	125	125	125	125	200	234	234	200	200	175	175
..do....		113	113	190	215	190	190	190	190	190	190	113	113	113	113	190	215	215	190	190	160	160
..do....		86	86	113	127	113	113	113	113	113	113	86	86	86	86	113	127	127	113	113	103	103
..do....		113	113	190	215	190	190	190	190	190	190	113	113	113	113	190	215	215	190	190	160	160
..do....		74	74	85	87	85	85	85	85	85	85	74	74	74	74	85	87	87	85	85	80	80
..do....		113	113	190	190	190	190	190	190	190	190	113	113	113	113	190	190	190	190	190	160	160
..do....		113	113	190	190	Special rate.		190	190	190	190	113	113	113	113	190	190	190	190	190	160	160
..do....		81	81	100	107	..do....		100	100	100	100	81	81	81	81	100	107	107	100	100	93	93
..do....		76	76	87	88	..do....		87	87	87	87	76	76	76	76	87	88	88	87	87	83	83
..do....		57	57	68	69	..do....		68	68	68	68	57	57	57	57	68	69	69	68	68	63	63
..do....		80	80	93	102	..do....		93	93	93	93	80	80	80	80	93	102	102	93	93	85	85
..do....		73	73	86	95	..do....		86	86	86	86	73	73	73	73	86	95	95	86	86	78	78
..do....		70	70	83	92	..do....		83	83	83	83	70	70	70	70	83	92	92	83	83	75	75
..do....		121	121	183	209	..do....		183	183	183	183	121	121	121	121	183	209	209	183	183	148	148
..do....		Special rate.		183	209	..do....		183	183	183	183	121	121	121	121	183	209	209	183	183	148	148
..do....		..do....		130	148	..do....		130	130	130	130	90	90	90	90	130	148	148	130	130	108	108
..do....		..do....		130	145	..do....		130	130	130	130	94	94	94	94	130	145	145	130	130	114	114
..do....		..do....		124	142	..do....		124	124	124	124	87	87	87	87	124	142	142	124	124	108	108
..do....		..do....		115	125	..do....		115	115	115	115	87	87	87	87	115	125	125	115	115	104	104
..do....		..do....		115	125	..do....		115	115	115	115	94	94	94	94	115	125	125	115	115	104	104
..do....		..do....		148	166	..do....		148	148	148	148	95	95	95	95	148	166	166	148	148	120	120
..do....		..do....		176	198	..do....		176	176	176	176	109	109	109	109	176	198	198	176	176	139	139
..do....		..do....		191	229	..do....		191	191	191	191	105	105	105	105	191	229	229	191	191	153	153
105	105	105	105	191	229	191	191	191	191	191	191	105	105	105	105	191	229	229	191	191	153	153
111	111	111	111	182	207	83	83	182	182	182	182	83	83	111	111	182	207	207	182	182	148	148
95	95	95	95	148	166	75	75	148	148	148	148	75	75	95	95	148	166	166	118	148	120	120
95	95	95	95	151	168	78	78	151	151	151	151	78	78	95	95	151	168	168	151	151	121	121
87	87	87	87	139	154	74	74	139	139	139	139	74	74	87	87	139	154	154	139	139	110	110
65	65	65	65	104	115	56	56	104	104	104	104	56	56	65	65	104	115	115	104	104	83	83
65	65	65	65	104	115	56	56	104	104	104	104	56	56	65	65	104	115	115	104	104	83	83
62	62	62	62	90	95	53	53	90	90	90	90	53	53	62	62	90	95	95	90	90	77	77
69	69	69	69	82	86	57	57	82	82	82	82	57	57	69	69	82	86	86	82	82	77	77
69	69	69	69	80	84	51	51	80	80	80	80	51	51	69	69	80	84	84	80	80	75	75
69	69	69	69	70	70	51	51	70	70	70	70	51	51	69	69	70	70	70	70	70	70	70
75	75	75	75	90	100	60	60	90	90	90	90	60	60	75	75	90	100	100	90	90	80	80
65	65	65	65	104	115	56	56	104	104	104	104	56	56	65	65	104	115	115	104	104	83	83
105	105	105	105	172	193	172	172	172	172	172	172	82	82	105	105	172	193	193	172	172	135	135
105	105	82	82	171	192	171	171	171	171	171	171	82	82	105	105	171	192	192	171	171	134	134
79	79	63	63	125	130	125	125	125	125	125	125	63	63	79	79	125	130	130	125	125	79	79
79	79	63	63	125	135	125	125	125	125	125	125	63	63	79	79	125	135	135	125	125	105	105
72	72	57	57	107	114	107	107	107	107	107	107	57	57	72	72	107	114	114	107	107	94	94
105	105	82	82	171	192	171	171	171	171	171	171	82	82	105	105	171	192	192	171	171	134	134
89	89	74	74	146	162	146	146	146	146	146	146	74	74	89	89	146	162	162	146	146	115	115
100	100	79	79	167	188	167	167	167	167	167	167	79	79	100	100	167	188	188	167	167	131	131
95	95	74	74	146	162	74	74	146	146	146	146	74	74	95	95	146	Sp'l rate.	95	146	146	120	170
79	79	63	63	125	136	63	63	125	125	125	125	63	63	79	79	125	do .	79	125	125	105	105
79	79	63	63	125	135	63	63	125	125	125	125	63	63	79	79	125	do .	79	125	125	105	105
63	63	58	58	93	98	58	58	93	93	93	93	58	58	63	63	93	do .	63	93	93	73	73
79	79	63	63	125	135	63	63	125	125	125	125	63	63	79	79	125	do .	79	125	125	105	105
95	95	74	84	146	162	74	74	146	146	146	146	74	74	95	95	146	do .	95	146	146	120	120
84	84	67	67	118	131	67	67	118	118	118	118	67	67	84	84	118	do .	84	118	118	102	102
72	72	57	57	108	115	57	57	108	108	108	108	57	57	72	72	108	do .	72	108	108	94	94
84	84	67	67	118	131	67	67	118	118	118	118	67	67	84	84	118	do .	84	118	118	102	102
72	72	57	57	108	115	57	57	108	108	108	108	57	57	72	72	108	do .	72	108	108	94	94
51	51	41	41	78	94	41	41	78	78	78	78	41	41	51	51	78	do .	51	78	78	63	63
72	72	57	57	110	120	57	57	110	110	110	110	57	57	72	72	110	do .	72	110	110	95	95
45	45	36	36	63	73	36	36	63	63	63	63	36	36	45	45	63	do .	45	63	63	52	52
72	72	57	57	110	120	57	57	110	110	110	110	57	57	72	72	110	do .	72	110	110	95	95

TABLE 23.—RATES OF FREIGHT, ALL RAIL FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 1,065 miles.

[Note.—Where the rates shown are not specifically described as applying on less

Date.		Commodities (rates in cents per 100 pounds).																	
					Furniture.		Stoves.		Coffee.		Soaps.				Starch.			Sugar	
											Castile and fancy.		Common.						
		Dry goods.	Cotton piece goods.	Boots and shoes.	Less than carload.	Carloads.	Less than carload.	Carloads.	Less than carload.	Carloads.	Less than carload.	Carloads.	Less than carload.	Carloads.	Less than carload.	Carloads.	Tea.	Less than carload.	Carloads.
1867—Jan.	1	242	242	242	242	242	242	242	190	190	190	190	140	140	190	190	242	100	1
Nov.	5	262	262	262	262	262	262	262	221	221	221	221	181	181	221	221	262	114	114
1868—Feb.	4	262	262	262	262	262	262	262	Special rate.		221	221	114	114	181	181	262	Special rate.	
June	4	242	242	242	242	242	262	262	..do....		207	207	108	108	168	168	242	..do....	
Aug.	10	194	194	194	194	194	194	194	..do....		168	168	108	108	157	157	194	..do....	
Sept.	7	242	242	242	242	262	262	262	..do....		207	207	108	108	168	168	242	..do....	
Dec.	7	262	262	262	262	262	262	262	..do....		221	221	114	114	181	181	262	..do....	
1869—Feb.	1	242	242	242	242	242	242	242	..do....		207	207	108	108	168	168	242	..do....	
Feb.	4	230	230	230	230	230	230	230	..do....		197	197	103	103	157	157	230	..do....	
Mar.	15	197	197	197	197	197	197	197	..do....		197	197	103	103	157	157	197	..do....	
May	12	197	197	197	197	197	197	197	..do....		197	197	103	103	157	158	197	..do....	
July	1	230	230	230	230	230	230	230	..do....		197	197	103	103	157	157	230	..do....	
Aug.	11	35	35	35	35	35	35	35	..do....		35	25	35	25	35	35	35	..do....	
Aug.	23	56	56	56	56	56	56	56	..do....		56	56	56	56	56	56	56	..do....	
Aug.	30	58	58	58	58	58	58	58	..do....		58	58	58	58	58	58	58	..do....	
Sept.	22	53	53	53	53	53	53	53	..do....		53	53	53	53	53	53	53	..do....	
Sept.	24	50	50	50	50	50	50	50	..do....		50	50	50	50	50	50	50	..do....	
Oct.	4	70	70	70	70	70	70	70	..do....		70	70	70	70	70	70	70	..do....	
Oct.	9	100	100	100	100	100	100	100	..do....		100	100	70	70	100	100	100	..do....	
Nov.	1	178	178	178	178	178	178	178	..do....		159	159	104	104	129	129	178	..do....	
Nov.	29	191	191	191	191	191	191	191	..do....		166	166	104	104	129	129	191	..do....	
1870—Apr.	14	191	191	191	191	191	191	191	..do....		166	166	104	104	129	129	191	50	50
May	7	191	191	191	191	191	191	191	..do....		166	166	104	104	129	129	191	50	50
July	18	100	100	100	100	100	100	100	..do....		90	90	65	65	75	75	100	50	50
July	18	90	90	90	90	90	90	90	..do....		85	85	65	65	75	75	90	50	50
July	21	80	80	80	80	80	80	80	..do....		75	75	65	65	70	70	80	50	50
Aug.	22	125	125	125	125	125	125	125	..do....		113	113	74	74	93	93	125	50	50
Sept.	8	165	165	165	165	165	165	165	..do....		145	145	89	89	113	113	165	50	50
Nov.	28	200	200	200	200	200	200	200	..do....		163	163	84	84	129	129	200	50	50
Dec.	26	226	226	226	226	226	226	226	79	79	189	189	103	103	151	151	226	79	79
1871—Feb.	20	189	189	189	189	189	189	189	73	73	163	163	92	92	129	129	189	73	73
Mar.	7	125	125	125	125	125	125	125	54	54	113	113	74	74	93	93	125	54	54
1871—Mar.	18	129	129	129	129	129	129	129	62	62	116	116	73	73	92	92	129	62	62
May	18	97	97	97	97	97	97	97	51	51	84	84	60	60	68	68	97	51	51
June	1	129	129	129	129	129	129	129	62	62	116	116	73	73	92	92	129	62	62
July	8	97	97	97	97	97	97	97	51	51	84	84	60	60	68	68	97	51	51
	28	60	60	60	60	60	60	60	45	45	60	60	60	60	60	60	60	45	45
Aug.	16	50	50	50	50	50	50	50	35	35	50	50	50	50	50	50	50	35	35
	22	45	45	45	45	45	45	45	35	35	45	45	45	45	45	44	45	35	35
Sept.	1	40	40	40	40	40	40	40	32	32	40	40	40	40	40	40	40	32	32
Nov.	27	129	129	129	129	129	129	129	62	62	116	116	73	73	92	92	129	62	62
Dec.	15	158	158	158	158	158	158	158	67	67	140	140	85	85	110	110	158	67	67
1872—Apr.	27	158	158	158	158	158	158	158	67	67	140	140	85	85	110	110	158	67	67
Aug.	1	97	97	97	97	97	97	97	49	49	91	91	61	61	78	78	97	49	49
Sept.	1	158	158	158	158	158	158	158	67	67	140	140	85	85	110	110	158	67	67
	2	128	128	128	128	128	128	128	61	61	116	116	73	73	91	91	128	61	61
Oct.	14	158	158	158	158	158	158	158	67	67	140	140	85	85	110	110	158	67	67
1873—Apr.	14	128	128	128	128	128	128	128	61	61	116	116	79	79	97	97	128	61	61
June	11	97	97	97	97	97	97	97	49	49	91	91	61	61	78	78	97	49	49
Aug.	11	55	55	55	55	55	55	55	43	43	55	55	43	43	43	43	55	43	43
Sept.	17	97	97	97	97	97	97	97	49	49	91	91	61	61	78	78	97	49	49
1874—Jan.	1	128	128	128	128	128	128	128	61	61	116	116	79	79	97	97	128	61	61
Aug.	3	97	97	97	97	97	97	97	35	35	91	91	61	61	78	78	97	35	35
1875—Jan.	20	128	128	128	128	128	128	128	61	61	116	116	79	79	97	97	128	61	61
Feb.	22	128	128	128	128	128	128	128	43	43	116	116	79	79	97	97	128	43	43
Mar.	17	97	97	97	97	97	97	97	34	34	91	91	61	61	78	78	97	34	34
Apr.	6	60	60	60	60	60	60	60	30	30	55	55	40	40	50	50	60	30	30
May	26	70	70	70	70	70	70	70	36	36	70	70	50	50	58	58	70	36	36
	29	43	43	43	43	43	43	43	31	31	43	43	36	36	36	36	43	31	31
Aug.	12	67	67	67	67	67	67	67	31	31	55	55	36	36	43	43	67	31	31
Dec.	22	43	43	43	43	43	43	43	25	25	36	36	31	31	31	31	43	25	25
1876—July	26	25	25	25	25	25	25	25	19	19	25	25	19	19	25	25	25	19	19

NEW YORK, N. Y., TO ST. LOUIS MO.

Boston, 1,186 miles; Philadelphia, 975 miles; Baltimore, 934 miles.

than carload or carload quantities they apply on shipments regardless of quantity.

Commodities (rates in cents in 100 pounds).																							
Molasses.		Rice.				Crockery and earthenware.		Bagging		Leather.		Lead.		Nails.			Agricultural implements.		Machinery.		Beer.	
Less than carload.	Carloads.	Less than carload.	Carloads.	Groceries.	Drugs.	Less than carload.	Carloads.	Less than carload.	Carloads.	Less than carload.	Carloads.	Less than carload.	Carloads.	Less than carload.	Carloads.	Hardware.	Less than carload.	Carloads.	Less than carload.	Carloads.	Less than carload.	Carloads.
100	100	100	100	190	242	190	190	190	190	190	190	100	100	100	100	190	242	242	190	190	140	140
114	114	114	114	221	262	221	221	221	221	221	221	114	114	114	114	221	262	262	221	221	181	181
Special rate.		114	114	221	262	221	221	221	221	221	221	114	114	114	114	221	262	262	221	221	181	181
..do....		108	108	207	242	207	207	207	207	207	207	108	108	108	108	207	242	242	207	207	168	168
..do....		108	108	168	194	168	168	168	168	168	168	108	108	108	108	168	194	194	168	168	157	158
..do....		108	108	207	242	207	207	207	207	207	207	108	108	108	108	207	242	242	207	207	168	168
..do....		114	114	221	262	221	221	221	221	221	221	114	114	114	114	221	262	262	221	221	181	181
..do....		108	108	207	242	207	207	207	207	207	207	108	108	108	108	207	242	242	207	207	168	168
..do....		103	103	197	230	197	197	197	197	197	197	103	103	103	108	197	230	230	197	197	157	157
..do....		103	103	197	197	197	197	197	197	197	197	103	103	103	108	197	197	197	197	197	157	157
..do....		103	103	197	197	Special rate.		197	197	197	197	103	103	103	103	197	197	197	197	197	157	157
..do....		103	103	197	230	..do....		197	197	197	197	103	103	103	103	197	230	230	197	197	157	157
..do....		35	35	35	35	..do....		35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
..do....		56	56	56	56	..do....		56	56	56	56	56	56	56	56	56	56	56	56	56	56	56
..do....		58	58	58	58	..do....		58	58	58	58	58	58	58	58	58	58	58	58	58	58	58
..do....		53	53	53	53	..do....		53	53	53	53	53	53	53	53	53	53	53	53	53	53	53
..do....		50	50	50	50	..do....		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
..do....		70	70	70	70	..do....		70	70	70	70	70	70	70	70	70	70	70	70	70	70	70
..do....		70	70	100	100	..do....		100	100	100	100	70	70	70	70	100	100	100	100	100	100	100
..do....		104	104	159	178	..do....		159	159	159	159	104	104	104	104	159	178	178	159	159	129	129
..do....		104	104	166	191	..do....		166	166	166	166	104	104	104	104	166	191	191	166	166	129	129
..do....		104	104	166	191	..do....		166	166	166	166	104	104	104	104	166	191	191	166	166	129	129
..do....		Special rate.		166	191	..do....		166	166	166	166	104	104	104	104	166	191	191	166	166	129	129
..do....		..do....		90	100	..do....		90	90	90	90	75	75	65	65	90	100	100	90	90	75	75
..do....		..do....		85	90	..do....		85	85	85	85	75	75	65	65	85	90	90	85	85	75	75
..do....		..do....		75	80	..do....		75	75	75	75	65	65	65	65	75	80	80	75	75	70	70
..do....		..do....		113	125	..do....		113	113	113	113	74	74	74	74	113	125	125	113	113	93	93
..do....		..do....		145	165	..do....		145	145	145	145	89	89	89	89	145	165	165	145	145	113	113
..do....		..do....		163	200	..do....		163	163	163	163	84	84	84	84	163	200	200	163	163	129	129
103	103	103	103	189	226	189	189	189	189	189	189	103	103	103	103	189	226	226	189	189	151	151
92	92	92	92	163	189	73	73	163	163	163	163	73	73	92	92	163	189	189	163	163	129	129
74	74	74	74	113	125	54	54	113	113	113	113	54	54	74	74	113	125	125	113	113	93	93
73	73	73	73	116	129	62	62	116	116	116	116	62	62	73	73	116	129	129	116	116	92	92
60	60	60	60	84	97	51	51	84	84	84	84	51	51	60	60	84	97	97	84	84	68	68
73	73	73	73	116	129	62	62	116	116	116	116	62	62	73	73	116	129	129	116	116	92	92
60	60	60	60	84	97	51	51	84	84	84	84	51	51	60	60	84	97	97	84	84	68	68
60	60	60	60	60	60	45	45	60	60	60	60	45	45	60	60	60	60	60	60	60	60	60
50	50	50	50	50	50	35	35	50	50	50	50	35	35	50	50	50	50	50	50	50	50	50
45	45	45	45	45	45	35	35	45	45	45	45	35	35	45	45	45	45	45	45	45	45	45
40	40	40	40	40	40	32	32	40	40	40	40	32	32	40	40	40	40	40	40	40	40	40
73	73	73	73	116	129	62	62	116	116	116	116	62	62	73	73	116	129	129	116	116	92	92
85	85	85	85	140	158	140	140	140	140	140	140	67	67	85	85	140	158	158	140	140	110	110
85	85	67	67	140	158	140	140	140	140	140	140	67	67	85	85	140	158	158	140	140	110	110
61	61	49	49	91	97	91	91	91	91	91	91	49	49	61	61	91	97	97	91	91	79	79
85	85	85	85	140	158	140	140	140	140	140	140	67	57	85	85	140	158	158	140	140	110	110
73	73	61	61	116	128	116	116	116	116	116	116	61	61	73	73	116	128	128	116	116	91	91
85	85	67	67	140	158	67	67	140	140	140	140	67	67	85	85	140	158	158	140	140	110	110
79	79	61	61	116	128	61	61	116	116	116	116	61	61	79	79	116	Spc'l rate.	79	116	116	97	97
61	61	49	49	91	97	49	49	91	91	91	91	49	49	61	61	91	.do .	61	91	91	79	79
43	43	43	43	55	55	43	43	55	55	55	55	43	43	43	43	55	.do .	43	55	55	43	43
61	61	49	49	91	97	49	49	91	91	91	91	49	49	61	61	91	.do .	61	91	91	79	79
79	79	61	61	116	128	61	61	116	116	116	116	61	61	79	79	116	.do .	79	116	116	97	97
61	61	35	35	91	97	35	35	91	91	91	94	35	35	61	61	91	.do .	61	91	91	79	79
79	79	61	61	116	128	61	61	116	116	116	116	61	61	79	79	116	.do .	79	116	116	97	97
79	79	61	61	116	128	61	61	116	116	116	116	61	61	79	79	116	.do .	79	116	116	97	97
24	24	49	49	91	97	49	49	91	19	91	91	49	49	61	61	91	.do .	61	91	91	79	79
40	40	30	30	55	60	30	30	55	55	55	55	30	30	40	40	55	.do .	40	55	55	50	50
50	50	36	36	70	70	36	36	70	70	70	70	36	36	50	50	70	.do .	50	70	70	50	50
36	36	31	31	43	43	31	31	43	43	43	43	31	31	36	36	43	.do .	36	43	43	39	39
36	36	31	31	55	67	31	31	55	55	55	55	31	31	36	36	55	.do .	36	55	55	43	43
31	31	25	25	36	43	25	25	36	36	36	36	25	25	31	31	36	.do .	31	36	36	31	31
19	19	19	19	25	25	19	19	25	25	25	25	19	19	19	19	25	.do .	19	25	25	25	25

TABLE 23.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 1,065 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.	Commodities (rates in cents per 100 pounds).																	
	Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar.	
										Castile and fancy.		Common.						
				Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.
1876—Dec. 18.....	67	67	67	67	67	67	67	36	36	61	61	43	43	55	55	67	36	36
1877—Mar. 12.....	97	97	97	97	97	97	97	49	49	91	91	61	61	79	79	97	49	49
Oct. 8.....	97	97	97	97	97	97	55	55	55	91	91	55	55	55	55	97	55	55
Oct. 22.....	128	128	128	128	128	128	61	61	61	116	116	61	61	61	61	128	61	61
Dec. 10.....	127	127	127	127	127	127	60	60	60	102	102	60	60	60	60	127	60	60
1878—Feb. 15.....	96	96	96	96	96	96	54	54	54	78	78	54	54	54	54	96	54	54
1879—Sept. 15.....	94	94	94	94	94	94	53	53	53	76	76	53	53	53	53	94	53	53
1881—Aug. 6.....	59	59	59	59	59	59	28	28	28	43	43	28	28	28	28	59	28	28
Nov. 14.....	76	76	76	76	76	76	38	38	28	65	65	38	38	38	38	76	38	28
1882—July 1.....	76	76	76	76	76	76	41	41	41	65	65	41	41	41	41	76	35	35
Nov. 1.....	94	94	94	94	94	94	47	47	47	76	76	47	47	47	47	94	47	47
1883—June 22.....	94	94	94	94	94	94	47	47	47	76	76	47	47	47	47	94	35	35
1885—Jan. 26.....	65	65	65	65	65	65	35	35	35	53	53	35	35	35	35	65	28	28
Oct. 5.....	76	76	76	76	76	76	35	35	35	65	65	35	35	35	35	76	29	29
Nov. 18.....	94	94	94	94	94	94	47	47	47	76	76	47	47	47	47	94	35	35
1886—Mar. 10.....	92	92	92	92	92	92	46	46	46	75	75	46	46	46	46	92	34	34
Aug. 26.....	92	63	92	92	92	92	46	46	46	75	75	46	46	46	46	92	34	34
1887—Apr. 1.....	92	63	92	92	92	75	46	46	34	75	75	41	35	41	29	92	34	34
1888—Aug. 15.....	87	58	87	87	75	58	38	41	29	75	75	41	35	41	29	87	41	29
1891—Apr. 9.....	87	58	87	87	75	35	29	41	29	75	75	41	35	41	29	87	41	29
1892—June 6.....	87	58	87	87	75	35	29	41	29	41	29	41	29	41	29	87	41	29

NEW YORK, N. Y., TO ST. LOUIS, MO.—Continued.

Boston, 1,186 miles; Philadelphia, 975 miles; Baltimore, 934 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																							
Molasses.		Rice.				Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.			Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.	Groceries.	Drugs.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Hardware.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
43	43	36	36	61	67	36	36	61	61	61	61	36	36	43	43	61	Sp'l rate.	43	61	61	55	55
61	61	49	49	91	97	49	49	91	91	91	91	49	49	61	61	91	.do.	61	91	91	79	79
55	55	55	55	91	97	55	55	55	55	91	91	55	55	55	55	91	.do.	55	91	55	55	55
61	61	61	61	116	128	61	61	61	61	116	116	61	61	61	61	116	.do.	61	116	61	61	61
60	60	60	60	102	127	60	60	60	60	102	102	60	60	60	60	102	.do.	60	102	60	60	60
54	54	54	54	78	96	54	55	54	54	78	78	54	54	54	54	78	.do.	54	78	54	54	54
53	53	53	53	76	94	53	53	53	53	76	76	53	53	53	53	76	.do.	53	76	53	53	53
28	28	28	28	43	59	28	28	28	28	43	43	28	28	28	28	43	.do.	28	43	28	28	28
38	38	38	38	65	76	38	38	38	38	65	65	38	38	38	38	65	.do.	38	65	38	38	38
35	35	41	41	65	76	41	41	41	41	65	65	41	41	41	41	65	.do.	41	65	41	41	41
47	47	47	47	76	94	47	47	47	47	76	76	47	47	47	47	76	.do.	47	76	47	47	47
35	35	47	47	76	94	47	47	47	47	76	76	47	47	47	47	76	do.	47	76	47	47	47
26	26	35	35	53	65	35	35	35	35	53	53	35	35	35	35	53	do.	35	53	35	35	35
29	29	35	35	65	76	35	35	35	35	65	65	35	35	35	35	65	.do.	35	65	35	35	35
35	35	47	47	76	94	47	47	47	47	76	76	47	47	47	47	76	.do.	47	76	47	47	47
34	34	46	46	75	92	46	46	46	46	75	75	46	46	46	46	75	92	46	75	46	46	46
34	34	46	46	75	92	46	46	46	46	75	75	46	46	46	46	75	92	46	75	46	46	46
34	34	46	34	75	92	46	46	46	46	75	46	46	46	46	46	75	75	46	46	46	46	46
41	35	41	29	75	87	41	35	58	41	58	41	41	29	41	35	75	58	35	41	35	51	35
41	35	41	29	75	87	41	35	58	41	58	41	41	29	35	29	75	58	35	41	35	51	35
41	35	41	29	75	87	41	35	58	41	58	41	41	29	35	29	75	58	35	41	35	51	35

TABLE 24.—RATES OF FREIGHT, ALL RAIL,

DISTANCE VIA SHORTEST ROUTE.—From New York, 1,100 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.		Commodities. (Rates in cents per 100 pounds.)																	
					Furniture.		Stoves.		Coffee.		Soaps.				Starch.			Sugar.	
											Castile and fancy.		Common.						
		Dry goods.	Cotton piece goods.	Boots and shoes.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Tea.	Less than carloads.	Carloads.
1867—Jan.	1	250	250	250	250	250	250	250	195	195	195	195	142	142	195	195	250	160	120
Nov.	5	273	273	273	273	273	273	273	229	229	229	229	185	185	229	229	273	114	114
1868—Feb.	4	273	273	273	273	273	273	273	Special rate.		229	229	114	114	185	185	273	Special rate.	
June	4	250	250	250	250	250	250	250	..do....		214	214	108	108	171	171	250	..do....	
Aug.	10	200	200	200	200	200	200	200	..do....		171	171	108	108	160	160	200	..do....	
Sept.	7	250	250	250	250	250	250	250	..do....		214	214	108	108	171	171	250	..do....	
Oct.	1	95	95	95	95	95	95	95	..do....		85	85	70	70	75	75	95	..do....	
Dec.	7	273	273	273	273	273	273	273	..do....		229	229	114	114	185	185	273	..do....	
1869—Feb.	1	250	250	250	250	250	250	250	..do....		214	214	108	108	171	171	250	..do....	
	17	87	87	87	87	87	87	87	..do....		87	87	87	87	87	87	87	..do....	
Mar.	15	214	214	214	214	214	214	214	..do....		214	214	108	108	171	171	214	..do....	
Apr.	12	214	214	214	214	214	214	214	..do....		214	214	108	108	171	171	214	..do....	
July	1	250	250	250	250	250	250	250	..do....		214	214	108	108	171	171	250	..do....	
Aug.	11	42	42	42	42	42	42	42	..do....		42	42	42	42	42	42	42	..do....	
Oct.	9	100	100	100	100	100	100	100	..do....		100	100	70	70	100	100	100	..do....	
	18	168	168	168	168	168	168	168	..do....		134	134	88	88	102	102	168	..do....	
Nov.	1	188	188	188	188	188	188	188	..do....		168	168	108	108	134	134	188	..do....	
	29	202	202	202	202	202	202	202	..do....		174	174	108	108	134	134	202	..do....	
1870—Apr.	14	202	202	202	202	202	202	202	..do....		174	174	108	108	134	134	202	..do....	
May	7	202	202	202	202	202	202	202	..do....		174	174	108	108	134	134	202	..do....	
June	18	142	142	142	142	142	142	142	..do....		114	114	72	72	92	92	142	..do....	
Aug.	12	64	64	64	64	64	64	64	..do....		64	64	64	64	64	64	64	Special rate.	
	22	126	126	126	126	126	126	126	..do....		114	114	72	72	92	92	126	..do....	
Sept.	8	168	168	168	168	168	168	168	..do....		148	148	88	88	114	114	168	..do....	
Nov.	28	204	204	204	204	204	204	204	..do....		164	164	82	82	129	129	204	..do....	
Dec.	26	231	231	231	231	231	231	231	76	76	192	192	102	102	153	153	231	76	76
1871—Feb.	20	192	192	192	192	192	192	192	70	70	164	164	90	90	129	129	192	70	70
Mar.	7	126	126	126	126	126	126	126	56	56	114	114	72	72	92	92	126	56	56
	13	129	129	129	129	129	129	129	59	59	115	115	70	70	90	90	129	59	59
May	18	96	96	96	96	96	96	96	47	47	82	82	57	57	65	65	96	47	47
June	1	129	129	129	129	129	129	129	59	59	115	115	70	70	90	90	129	59	59
July	8	96	96	96	96	96	96	96	47	47	82	82	57	57	65	65	96	47	47
July	26	76	76	76	76	76	76	76	41	41	70	70	51	51	50	50	76	41	41
	28	65	65	65	65	65	65	65	45	45	65	65	57	57	65	65	65	45	45
Aug.	16	51	51	51	51	51	51	51	36	36	51	51	51	51	51	51	51	36	36
	22	45	45	45	45	45	45	45	35	35	45	45	45	45	45	45	45	35	35
Sept.	1	40	40	40	40	40	40	40	34	34	40	40	40	40	40	40	40	34	34
Nov.	27	129	129	129	129	129	129	129	59	59	115	115	70	70	90	90	129	59	59
Dec.	15	160	160	160	160	160	160	160	64	64	141	141	83	83	109	109	160	64	64
1872—Apr.	27	160	160	160	160	160	160	160	64	64	141	141	83	83	109	109	160	64	64
Aug.	1	96	96	96	96	96	96	96	45	45	90	90	58	58	77	77	96	45	45
Sept.	1	160	160	160	160	160	160	160	64	64	141	141	83	83	109	109	160	64	64
	2	128	128	128	128	128	128	128	58	58	115	115	70	70	90	90	128	58	58
Oct.	14	160	160	160	160	160	160	160	64	64	141	141	83	83	109	109	160	64	64
1873—Apr.	14	128	128	128	128	128	128	128	58	58	115	115	77	77	96	96	128	58	58
July	22	96	96	96	96	96	96	96	45	45	90	90	58	58	77	77	96	45	45
Aug.	12	64	64	64	64	64	64	64	38	38	64	64	38	38	51	51	64	38	38
Sept.	3	51	51	51	51	51	51	51	38	38	51	51	38	38	36	36	51	38	38
	17	96	96	96	96	96	96	96	45	45	90	90	58	58	77	77	96	45	45
1874—Jan.	1	128	128	128	128	128	128	128	58	58	115	115	77	77	96	96	128	58	58
Aug.	3	96	96	96	96	94	96	96	45	45	90	90	58	58	77	77	96	45	45
1875—Jan.	20	128	128	128	128	128	128	128	58	58	115	115	77	77	96	96	128	58	58
Mar.	17	96	96	96	96	96	96	96	38	38	90	90	58	58	77	77	96	38	38
	1	70	70	70	70	70	70	70	36	36	70	70	50	50	50	50	70	36	36
Aug.	12	64	64	64	64	64	64	64	26	26	51	51	32	32	38	38	64	26	26
Nov.	15	96	96	96	96	96	96	96	45	45	90	90	58	58	77	77	96	45	45
Dec.	22	38	38	38	38	38	38	38	19	19	32	32	26	26	26	26	38	19	19
1876—Jan.	10	96	96	96	96	96	96	96	45	45	90	90	58	58	77	77	96	45	45
June	2	96	96	96	96	96	96	96	26	26	90	90	58	58	77	77	96	26	26
	12	32	32	32	32	32	32	32	21	21	32	32	21	21	21	21	32	21	21
Dec.	18	64	64	64	64	64	64	64	32	32	58	58	38	38	51	51	64	32	32

FROM NEW YORK, N. Y., TO CAIRO, ILL.

Boston, 1,221 miles; Philadelphia, 1,010 miles; Baltimore, 943 miles.

thancarload or carload quantities they apply on shipments regardless of quantity.]

Commodities. (Rates in cents per 100 pounds.)																								
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
100	100	100	100	195	250	195	195	195	195	195	195	100	100	100	100	195	250	250	195	195	142	142
114	114	114	114	229	273	229	229	229	229	229	229	114	114	114	114	229	273	273	229	229	185	185
Special rate.		114	114	229	273	229	229	229	229	229	229	114	114	114	114	229	273	273	229	229	185	185
..do....		108	108	214	250	214	214	214	214	214	214	108	108	108	108	214	250	250	214	214	171	171
..do....		108	108	171	200	171	171	171	171	171	171	108	108	108	108	171	200	200	171	171	160	160
..do....		108	108	214	250	214	214	214	214	214	214	108	108	108	108	214	250	250	214	214	171	171
..do....		70	70	85	95	85	85	85	85	85	85	70	70	70	70	85	95	95	85	85	78	78
..do....		114	114	229	273	229	229	229	229	229	229	114	114	114	114	229	273	273	229	229	185	185
..do....		108	108	214	250	214	214	214	214	214	214	108	108	108	108	214	250	250	214	214	171	171
..do....		87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87
..do....		108	108	214	214	214	214	214	214	214	214	108	108	108	108	214	214	214	214	214	171	171
..do....		108	108	214	214	Special rate.		214	214	214	214	108	108	108	108	214	214	214	214	214	171	171
..do....		108	108	214	250	..do....		214	214	214	214	214	214	108	108	214	250	250	214	214	171	171
..do....		42	42	42	42	..do....		42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
..do....		70	70	100	100	..do....		100	100	100	100	70	70	70	70	100	100	100	100	100	100	100
..do....		88	88	134	168	..do....		134	134	134	134	88	88	88	88	134	168	168	134	134	102	102
..do....		108	108	168	188	..do....		168	168	168	168	108	108	108	108	168	188	188	168	168	134	134
..do....		108	108	174	202	..do....		174	174	174	174	108	108	108	108	174	202	202	174	174	134	134
..do....		108	108	174	202	..do....		174	174	174	174	108	108	108	108	174	202	202	174	174	134	134
..do....		Special rate.		174	202	..do....		174	174	174	174	108	108	108	108	174	202	202	174	174	134	134
..do....		..do....		114	142	..do....		114	114	114	114	72	72	72	72	114	142	142	114	114	92	92
..do....		..do....		64	64	..do....		64	64	64	64	64	64	64	64	64	64	64	64	64	64	64
..do....		..do....		114	126	..do....		114	114	114	114	72	72	72	72	114	126	126	114	114	92	92
..do....		..do....		148	168	..do....		148	148	148	148	88	88	88	88	148	168	168	148	148	114	114
..do....		..do....		164	204	..do....		164	164	164	164	82	82	82	82	164	204	204	164	164	129	129
102	102	102	102	192	231	192	192	192	192	192	192	102	102	102	102	192	231	231	192	192	153	153
90	90	90	90	164	192	70	70	164	164	164	164	70	70	90	90	164	192	192	164	164	129	129
72	72	72	72	114	126	56	56	114	114	114	114	56	56	72	72	114	126	126	114	114	92	92
70	70	70	70	115	129	59	59	115	115	115	115	59	59	70	70	115	129	129	115	115	90	90
57	57	57	57	82	96	47	47	82	82	82	82	47	47	57	57	82	96	96	82	82	65	65
70	70	70	70	115	129	59	59	115	115	115	115	59	59	70	70	115	129	129	115	115	90	90
57	57	57	57	82	96	47	47	82	82	82	82	47	47	57	57	82	96	96	82	82	65	65
51	51	51	51	70	76	41	41	70	70	70	70	41	41	51	51	70	76	76	70	70	59	59
57	57	57	57	65	65	45	45	65	65	65	65	45	45	57	57	65	65	45	65	65	65	65
51	51	51	51	51	51	36	36	51	51	51	51	36	36	51	51	51	51	51	51	51	51	51
45	45	45	45	45	45	35	35	45	45	45	45	35	35	45	45	45	45	45	45	45	45	45
40	40	40	40	40	40	34	34	40	40	40	40	34	34	40	40	40	40	40	40	40	40	40
70	70	70	70	115	129	59	59	115	115	115	115	59	59	70	70	115	129	129	115	115	90	90
83	83	83	83	141	160	141	141	141	141	141	141	64	64	83	83	141	160	160	141	141	109	109
83	83	64	64	141	160	141	141	141	141	141	141	64	64	83	83	141	160	160	141	141	109	109
58	58	45	45	90	96	90	90	90	90	90	90	45	45	58	58	90	96	96	90	90	77	77
83	83	83	83	141	160	141	141	141	141	141	141	64	64	83	83	141	160	160	141	141	109	109
70	70	58	58	115	128	115	115	115	115	115	115	58	58	70	70	115	128	128	115	115	90	90
83	83	64	64	141	160	64	64	141	141	141	141	64	64	83	83	141	160	160	141	141	109	109
77	77	58	58	115	128	58	58	115	115	115	115	58	58	77	77	115	Sp'l rate.	77	115	115	96	96
58	58	45	45	90	96	45	45	90	90	90	90	45	45	58	58	90	..do.	58	90	90	77	77
38	38	38	38	64	64	38	38	64	64	64	64	38	38	38	38	64	..do.	38	64	64	51	51
38	38	38	38	51	51	38	38	51	51	51	51	38	38	38	38	51	..do.	38	51	51	38	38
58	58	45	45	90	96	45	45	90	90	90	90	45	45	58	58	90	..do.	58	90	90	77	77
77	77	58	58	115	128	58	58	115	115	115	115	58	58	77	77	115	..do.	77	115	115	96	96
58	58	45	45	90	96	45	45	90	90	90	90	45	45	58	58	90	..do.	58	90	90	77	77
77	77	58	58	115	128	58	58	115	115	115	115	58	58	77	77	115	..do.	77	115	115	96	96
38	38	45	45	90	96	45	45	90	90	90	90	45	45	58	58	90	..do.	58	90	90	77	77
50	50	36	36	70	70	36	36	70	70	70	70	36	36	50	50	70	..do.	50	70	70	50	50
38	38	26	26	51	64	26	26	51	51	51	51	26	26	32	32	51	..do.	32	51	51	38	38
58	58	45	45	90	90	45	45	90	90	90	90	45	45	58	58	90	..do.	58	90	90	77	77
26	26	19	19	32	38	19	19	32	32	32	32	19	19	26	26	32	..do.	26	32	32	26	26
58	58	45	45	90	96	45	45	90	90	90	90	45	45	58	58	90	..do.	58	90	90	77	77
32	32	26	26	90	96	26	26	90	90	90	90	26	26	32	32	90	..do.	32	90	90	77	77
21	21	21	21	32	32	21	21	32	32	32	32	21	21	21	21	32	..do.	21	32	32	32	32
38	38	32	32	58	64	32	32	58	58	58	58	32	32	38	38	58	..do.	38	58	58	51	51

TABLE 24.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 1,100 miles:

[NOTE.—Where the rates shown are not specifically described as applying on

Date.	Commodities (rates in cents per 100 pounds.)																	
	Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar	
										Castile and fancy.		Common.						
				Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.
1877—Mar. 12	96	96	96	96	96	96	96	45	45	90	90	58	58	77	77	96	45	45
Oct. 8	96	96	96	96	96	96	51	51	51	90	90	51	51	51	51	96	51	51
22	128	128	128	128	128	128	58	58	58	115	115	58	58	58	58	128	58	58
Dec. 19	128	128	128	128	128	128	58	58	58	102	102	58	58	58	58	128	58	58
1878—Feb. 15	96	96	96	96	96	96	51	51	51	77	77	51	51	51	51	96	51	51
1881—Aug. 6	58	58	58	58	58	58	25	25	25	41	41	25	25	25	25	58	25	25
Nov. 14	77	77	77	77	77	77	36	36	36	64	64	36	36	36	36	77	36	36
1882—Jan. 24	58	58	58	58	58	58	25	25	25	41	41	25	25	25	25	58	25	25
July 1	77	77	77	77	77	77	38	38	38	64	64	38	38	38	38	77	32	32
Nov. 1	96	96	96	96	96	96	45	45	45	77	77	45	45	45	45	96	45	45
1883—June 22	96	96	96	96	96	96	45	45	45	77	77	45	45	45	45	96	32	32
1885—Jan. 26	64	64	64	64	64	64	32	32	32	51	51	32	32	32	32	64	23	23
June 1	51	51	51	51	51	51	23	23	23	38	38	23	23	38	23	51	19	19
Oct. 5	77	77	77	77	77	77	32	32	32	64	64	32	32	32	32	77	26	26
Nov. 15	96	96	96	96	96	96	45	45	45	77	77	45	45	45	45	96	32	32
1886—Mar. 10	90	90	90	90	90	90	42	42	42	72	72	42	42	42	42	90	30	30
Aug. 26	90	60	90	90	90	90	42	42	42	72	72	42	42	42	42	90	30	30
1887—Apr. 1	90	60	90	90	78	60	36	42	30	78	78	42	36	42	30	90	30	30
1888—Jan. 9	90	60	90	90	78	60	40	46	33	78	78	46	40	46	33	90	30	30
Mar. 5	90	60	90	90	78	60	36	42	30	78	78	42	36	42	30	90	30	30
Nov. 12	60	42	60	60	48	42	30	36	24	48	48	36	30	36	24	60	24	24
Dec. 17	90	60	90	90	78	60	36	42	30	78	78	42	36	42	30	90	30	30
1891—Apr. 9	90	60	90	90	78	36	30	42	30	78	78	42	36	42	30	90	30	30
1892—Mar. 16	90	60	90	90	78	36	30	42	30	42	30	42	30	42	30	90	30	30
May 2	90	60	90	90	78	36	30	42	30	42	30	42	30	42	30	90	30	30
June 6	90	60	90	90	78	36	30	42	30	42	36	42	30	42	30	90	42	36

CHANGES IN COMPETITIVE RATES.

NEW YORK, N. Y., TO CAIRO, ILL.—Continued.

Boston, 1,221 miles; Philadelphia, 1,010 miles; Baltimore, 943 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds.)																						
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
58	58	45	45	90	96	45	45	90	90	90	90	45	45	58	58	90	Sp'l rate.	58	90	90	77	77
51	51	51	51	90	96	51	51	51	51	90	90	51	51	51	51	90	.do.	51	90	51	51	51
58	58	58	58	115	128	58	58	58	58	115	115	58	58	58	58	115	.do.	58	115	58	58	58
58	58	58	58	102	128	58	58	58	58	102	102	58	58	58	58	102	.do.	58	102	58	58	58
51	51	51	51	77	96	51	51	51	51	77	77	51	51	51	51	77	.do.	51	77	51	51	51
25	25	25	25	41	58	25	25	25	25	41	41	25	25	25	25	41	.do.	25	41	25	25	25
36	36	36	36	64	77	36	36	36	36	64	64	36	36	36	36	64	.do.	36	64	36	36	36
25	25	25	25	41	58	25	25	25	25	41	41	25	25	25	25	41	.do.	25	41	25	25	25
32	32	38	38	64	77	38	38	38	38	64	64	38	38	38	38	64	.do.	38	64	38	38	38
45	45	45	45	77	96	45	45	45	45	77	77	45	45	45	45	77	.do.	45	77	45	45	45
32	32	45	45	77	96	45	45	45	45	77	77	45	45	45	45	77	.do.	45	77	45	45	45
23	23	32	32	51	64	32	32	32	32	51	51	32	32	32	32	51	.do.	32	51	32	32	32
19	19	23	23	38	51	23	23	23	23	38	38	23	23	23	23	38	.do.	23	38	23	23	23
26	26	32	32	64	77	32	32	32	32	64	64	32	32	32	32	64	.do.	32	64	32	32	32
32	32	45	45	77	96	45	45	45	45	77	77	45	45	45	45	77	.do.	45	77	45	45	45
30	30	42	42	72	90	42	42	42	42	72	72	42	42	42	42	72	.do.	42	72	42	42	42
30	30	42	42	72	90	42	42	42	42	72	72	42	42	42	42	72	.do.	42	72	42	42	42
42	36	42	42	78	90	42	36	60	42	60	42	42	30	42	36	78	60	36	42	36	60	36
46	40	46	33	78	90	46	40	60	46	60	46	46	33	46	40	78	60	40	46	40	60	40
42	36	42	30	78	90	42	36	60	42	60	42	42	30	42	36	78	60	36	42	36	60	36
36	30	36	24	48	60	36	30	42	36	42	36	36	24	36	30	48	42	30	36	30	42	30
42	36	42	30	78	90	42	36	60	42	60	42	42	30	42	36	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36
42	36	42	30	78	90	42	36	60	42	60	42	42	30	36	30	78	60	36	42	36	60	36

TABLE 28.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE, VIA SHORTEST ROUTE.—From New York, 757 miles:

[NOTE.—Where the rates shown are not specifically described as applying on les

Date.	Commodities (rates in cents per 100 pounds).																	
				Furniture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar	
										Castile and fancy.		Common.						
	Dry goods.	Cotton piece goods.	Boots and shoes.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.
1873—Aug. 16.....	37	37	37	37	37	37	37	28	28	37	37	28	28	28	28	37	28	28
Sept. 17.....	70	70	70	70	70	70	70	32	32	64	64	41	41	55	55	70	32	[illegible]
1874—Jan. 1.....	92	92	92	92	92	92	92	41	41	83	83	55	55	70	70	92	41	[illegible]
Aug. 3.....	70	70	70	70	70	70	70	32	32	64	64	41	41	55	55	70	32	[illegible]
1875—Jan. 20.....	92	92	92	92	92	92	92	41	41	83	83	55	55	70	70	92	41	[illegible]
Feb. 23.....	92	92	92	92	92	92	92	41	28	83	83	55	55	70	70	92	41	[illegible]
Mar. 17.....	70	70	70	70	70	70	70	28	28	64	64	41	41	55	55	70	28	[illegible]
Apr. 6.....	55	55	55	55	55	55	55	28	28	51	51	37	37	46	46	55	28	[illegible]
Apr. 23.....	40	40	40	40	40	40	40	25	25	40	40	35	35	35	35	40	25	[illegible]
May 18.....	40	40	40	40	40	40	40	25	25	40	40	35	35	35	35	40	25	[illegible]
May 29.....	28	28	28	28	28	28	28	19	19	28	28	23	23	25	25	28	19	[illegible]
Aug. 12.....	46	46	46	46	46	46	46	19	19	37	37	23	23	28	28	46	19	[illegible]
Nov. 15.....	70	70	70	70	70	70	70	32	32	64	64	41	41	55	55	70	[illegible]	[illegible]
Dec. 22.....	30	30	30	30	30	30	30	15	15	25	25	20	20	20	20	30	15	[illegible]
1876—Jan. 10.....	70	70	70	70	70	70	70	32	32	64	64	41	41	55	55	70	32	[illegible]
June 2.....	70	70	70	70	70	70	70	20	20	64	64	25	25	55	55	70	20	[illegible]
June 12.....	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25	16	[illegible]
July 28.....	15	15	15	15	15	15	15	10	10	15	15	10	10	15	15	15	10	[illegible]
Aug. 7.....	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25	16	[illegible]
Dec. 18.....	46	46	46	46	46	46	46	23	23	41	41	28	28	37	37	46	23	[illegible]
1877—Mar. 12.....	70	70	70	70	70	70	70	32	32	64	64	41	41	55	55	70	32	[illegible]
Oct. 8.....	70	70	70	70	70	70	37	37	37	64	64	37	37	37	37	70	37	[illegible]
Oct. 22.....	92	92	92	92	92	92	41	41	41	83	83	41	41	41	41	92	41	[illegible]
Dec. 10.....	92	92	92	92	92	92	41	41	41	73	73	41	41	41	41	92	41	[illegible]
1878—Feb. 15.....	70	70	70	70	70	70	37	37	37	55	55	37	37	37	37	70	37	[illegible]
1881—Aug. 6.....	41	41	41	41	41	41	18	18	18	29	29	18	18	18	18	41	18	[illegible]
Nov. 14.....	55	55	55	55	55	55	26	26	26	46	46	26	26	26	26	55	26	[illegible]
1882—Jan. 24.....	41	41	41	41	41	41	18	18	18	32	32	18	18	18	18	41	18	[illegible]
June 22.....	70	70	70	70	70	70	32	32	32	55	55	32	32	32	32	70	32	[illegible]
July 1.....	55	55	55	55	55	55	28	28	28	46	46	28	28	28	28	55	23	[illegible]
Nov. 1.....	70	70	70	70	70	70	32	32	32	55	55	32	32	32	32	70	32	[illegible]
1883—June 22.....	70	70	70	70	70	70	32	32	32	55	55	32	32	32	32	70	23	[illegible]
1885—Jan. 26.....	46	46	46	46	46	23	23	23	23	37	37	23	23	23	23	46	17	[illegible]
June 1.....	37	37	37	37	37	37	17	17	17	28	28	17	17	17	17	37	14	[illegible]
Oct. 5.....	55	55	55	55	55	55	23	23	23	46	46	23	23	23	23	55	18	[illegible]
Nov. 18.....	70	70	70	70	70	70	32	32	32	55	55	32	32	32	32	70	23	[illegible]
1886—Mar. 10.....	65	65	65	65	65	65	30	30	30	52	52	30	30	30	30	65	22	[illegible]
Aug. 26.....	65	44	65	65	65	65	30	30	30	52	52	30	30	30	30	65	22	[illegible]
1887—Apr. 1.....	65	44	65	65	57	44	26	30	22	57	57	30	26	30	22	65	30	[illegible]
1888—Jan. 9.....	65	44	65	65	57	44	29	33	24	57	57	33	29	33	24	65	33	[illegible]
Mar. 5.....	65	44	65	65	57	44	26	30	22	57	57	30	26	30	22	65	30	[illegible]
Nov. 12.....	44	30	44	44	35	30	22	26	17	35	35	26	22	26	17	44	26	[illegible]
Dec. 17.....	65	44	65	65	57	44	26	30	22	57	57	30	26	30	22	65	30	[illegible]
1891—Apr. 9.....	65	44	65	65	57	26	22	30	22	57	57	30	22	30	22	65	30	[illegible]
1892—Mar. 6.....	65	44	65	65	57	26	22	30	22	30	22	30	22	30	22	65	30	[illegible]
May 2.....	65	44	65	65	57	26	22	30	22	30	22	30	22	30	22	65	30	[illegible]
June 6.....	65	44	65	65	57	26	22	30	22	30	22	30	22	30	22	65	30	[illegible]

NEW YORK, N. Y., TO MEMPHIS, TENN.

Boston, 1,371 miles; Philadelphia, 1,038 miles; Baltimore, 972 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities, rates in cents per 100 pounds.																						
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
125	125	125	125	225	270	235	235	235	235	235	235	125	125	125	125	235	270	270	235	235	175	175
125	125	125	125	222	256	222	222	222	222	222	222	125	125	125	125	222	256	256	222	222	175	175
Special rate.		125	125	222	256	222	222	222	222	222	222	125	125	125	125	222	256	256	222	222	175	175
..do....		125	125	200	234	200	200	200	200	200	200	125	125	125	125	200	234	234	200	200	175	175
..do....		113	113	190	215	190	190	190	190	190	190	113	113	113	113	190	215	215	190	190	160	160
..do....		86	86	113	127	113	113	113	113	113	113	86	86	86	86	113	127	127	113	113	103	103
..do....		113	113	190	215	190	190	190	190	190	190	113	113	113	113	190	215	215	190	190	160	160
..do....		74	74	85	87	85	85	85	85	85	85	74	74	74	74	85	87	87	85	85	80	80
..do....		113	113	190	190	190	190	190	190	190	190	113	113	113	113	190	190	190	190	190	160	160
..do....		113	113	190	190	Special rate.		190	190	190	190	113	113	113	113	190	190	190	190	190	160	160
..do....		81	81	100	107	..do....		100	100	100	100	81	81	81	81	100	107	107	100	100	93	93
..do....		76	76	87	88	..do....		87	87	87	87	76	76	76	76	87	88	88	87	87	83	83
..do....		57	57	68	69	..do....		68	68	68	68	57	57	57	57	68	69	69	68	68	63	63
..do....		80	80	93	102	..do....		93	93	93	93	80	80	80	80	93	102	102	93	93	85	85
..do....		73	73	86	95	..do....		86	86	86	86	73	73	73	73	86	95	95	86	86	78	78
..do....		70	70	83	92	..do....		83	83	83	83	70	70	70	70	83	92	92	83	83	75	75
..do....		121	121	183	209	..do....		183	183	183	183	121	121	121	121	183	209	209	183	183	148	148
..do....		Special rate.		183	209	..do....		183	183	183	183	121	121	121	121	183	209	209	183	183	148	148
..do....		..do....		130	148	..do....		130	130	130	130	90	90	90	90	130	148	148	130	130	108	108
..do....		..do....		130	145	..do....		130	130	130	130	94	94	94	94	130	145	145	130	130	114	114
..do....		..do....		124	142	..do....		124	124	124	124	87	87	87	87	124	142	142	124	124	108	108
..do....		..do....		115	125	..do....		115	115	115	115	87	87	87	87	115	125	125	115	115	104	104
..do....		..do....		115	125	..do....		115	115	115	115	94	94	94	94	115	125	125	115	115	104	104
..do....		..do....		148	166	..do....		148	148	148	148	95	95	95	95	148	166	166	148	148	120	120
..do....		..do....		176	198	..do....		176	176	176	176	109	109	109	109	176	198	198	176	176	139	139
..do....		..do....		191	229	..do....		191	191	191	191	105	105	105	105	191	229	229	191	191	153	153
105	105	105	105	191	229	191	191	191	191	191	191	105	105	105	105	191	229	229	191	191	153	153
111	111	111	111	182	207	83	83	182	182	182	182	83	83	111	111	182	207	207	182	182	148	148
95	95	95	95	148	166	75	75	148	148	148	148	75	75	95	95	148	166	166	118	148	120	120
95	95	95	95	151	168	78	78	151	151	151	151	78	78	95	95	151	168	168	151	151	121	121
87	87	87	87	139	154	74	74	139	139	139	139	74	74	87	87	139	154	154	139	139	110	110
65	65	65	65	104	115	56	56	104	104	104	104	56	56	65	65	104	115	115	104	104	83	83
65	65	65	65	104	115	56	56	104	104	104	104	56	56	65	65	104	115	115	104	104	83	83
62	62	62	62	90	95	53	53	90	90	90	90	54	53	62	62	90	95	95	90	90	77	77
69	69	69	69	82	86	57	57	82	82	82	82	57	57	69	69	82	86	86	82	82	77	77
69	69	69	69	80	84	51	51	80	80	80	80	51	51	69	69	80	84	84	80	80	75	75
69	69	69	69	70	70	51	51	70	70	70	70	51	51	69	69	70	70	70	70	70	70	70
75	75	75	75	90	100	60	60	90	90	90	90	60	60	75	75	90	100	100	90	90	80	80
65	65	65	65	104	115	56	56	104	104	104	104	56	56	65	65	104	115	115	104	104	83	83
105	105	105	105	172	193	172	172	172	172	172	172	82	82	105	105	172	193	193	172	172	135	135
105	105	82	82	171	192	171	171	171	171	171	171	82	82	105	105	171	192	192	171	171	134	134
79	79	63	63	125	130	125	125	125	125	125	125	63	63	79	79	125	130	130	125	125	79	79
79	79	63	63	125	135	125	125	125	125	125	125	63	63	79	79	125	135	135	125	125	105	105
72	72	57	57	107	114	107	107	107	107	107	107	57	57	72	72	107	114	114	107	107	94	94
105	105	82	82	171	192	171	171	171	171	171	171	82	82	105	105	171	192	192	171	171	134	134
89	89	74	74	146	162	146	146	146	146	146	146	74	74	89	89	146	162	162	146	146	115	115
100	100	79	79	167	188	167	167	167	167	167	167	79	79	100	100	167	188	188	167	167	131	131
95	95	74	74	146	162	74	74	146	146	146	146	74	74	95	95	146	Sp'l rate.	95	146	146	120	170
79	79	63	63	125	136	63	63	125	125	125	125	63	63	79	79	125	.do .	79	125	125	105	105
79	79	63	63	125	135	63	63	125	125	125	125	63	63	79	79	125	.do .	79	125	125	105	105
63	63	58	58	93	98	58	58	93	93	93	93	58	58	63	63	93	.do .	63	93	93	73	73
79	79	63	63	125	135	63	63	125	125	125	125	63	63	79	79	125	.do .	79	125	125	105	105
95	95	74	84	146	162	74	74	146	146	146	146	74	74	95	95	146	.do .	95	146	146	120	120
84	84	67	67	118	131	67	67	118	118	118	118	67	67	84	84	118	.do .	84	118	118	102	102
72	72	57	57	108	115	57	57	108	108	108	108	57	57	72	72	108	.do .	72	108	108	94	94
84	84	67	67	118	131	67	67	118	118	118	118	67	67	84	84	118	.do .	84	118	118	102	102
72	72	57	57	108	115	57	57	108	108	108	108	57	57	72	72	108	.do .	72	108	108	94	94
51	51	41	41	78	94	41	41	78	78	78	78	41	41	51	51	78	.do .	51	78	78	63	63
72	72	57	57	110	120	57	57	110	110	110	110	57	57	72	72	110	.do .	72	110	110	95	95
45	45	36	36	63	73	36	36	63	63	63	63	36	36	45	45	63	.do .	45	63	63	52	52
72	72	57	57	110	120	57	57	110	110	110	110	57	57	72	72	110	.do .	72	110	110	95	95

TABLE 25.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 1,158 miles:

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.	Commodities (rates in cents per 100 pounds).																		
	Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar	
										Castile and fancy.		Common.						
				Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.
1876—June 2	120	120	120	120	120	120	120	41	41	110	110	72	72	95	95	120	41	4.
12	68	68	68	68	68	68	68	37	37	63	63	41	41	58	58	68	37	[illegible]
Dec. 18	94	94	94	94	94	94	94	47	47	84	84	56	56	73	73	94	47	[illegible]
1877—Mar. 12	145	145	145	145	145	145	145	61	61	130	130	74	74	110	110	145	[illegible]	[illegible]
Sept. 10	114	114	114	114	114	114	114	56	56	107	107	71	71	93	93	114	[illegible]	[illegible]
Oct. 8	114	114	114	114	114	114	65	65	65	107	107	65	65	65	65	114	[illegible]	[illegible]
22	116	116	116	116	116	116	67	67	67	109	109	67	67	67	67	116	[illegible]	[illegible]
1878—Feb. 15	114	114	114	114	114	114	65	65	65	97	97	65	65	65	65	114	[illegible]	[illegible]
Mar. 4	114	114	114	114	114	114	63	63	63	93	93	63	63	63	63	114	[illegible]	
1880—Feb. 12	107	107	107	107	107	107	49	49	49	87	87	49	49	49	49	107	[illegible]	[illegible]
1881—Aug. 6	75	75	75	75	75	75	35	35	35	50	50	35	35	35	35	75	[illegible]	[illegible]
Nov. 14	83	83	83	83	83	83	41	41	41	63	63	41	41	41	41	83	[illegible]	[illegible]
1882—Jan. 22	100	100	100	100	100	100	45	45	45	80	80	45	45	45	45	100	[illegible]	[illegible]
June 28	99	99	99	99	99	99	53	53	53	82	82	53	53	53	53	99	[illegible]	[illegible]
July 1	116	116	116	116	116	116	57	57	57	99	99	57	57	57	57	116	[illegible]	[illegible]
Sept. 1	99	99	99	99	99	99	53	53	53	82	82	53	53	53	53	99	[illegible]	[illegible]
Nov. 1	114	114	114	114	114	114	58	58	58	93	93	58	58	58	58	114	[illegible]	[illegible]
1883—June 22	114	114	114	114	114	114	58	58	58	93	93	58	58	58	58	114	[illegible]	[illegible]
1884—Jan. 1	114	114	114	114	114	114	58	58	58	93	93	58	58	58	58	114	[illegible]	[illegible]
1885—Jan. 1	112	112	112	112	112	112	56	56	56	91	91	56	56	56	56	112	[illegible]	[illegible]
26	40	40	40	40	40	40	25	25	25	35	35	25	25	25	25	40	[illegible]	
June 1	80	80	80	80	80	80	42	42	42	65	65	42	42	42	42	80	[illegible]	[illegible]
Oct. 5	102	70	102	102	102	102	50	50	50	86	86	50	50	50	50	102	[illegible]	[illegible]
1887—Apr. 1	102	70	102	102	86	70	44	50	44	86	86	86	50	50	50	102	[illegible]	[illegible]
1890—Apr. 1	100	65	100	100	85	65	38	45	35	85	85	45	38	45	35	100	[illegible]	[illegible]
Nov. 1	100	65	100	100	85	65	38	45	35	85	85	45	38	45	35	100	[illegible]	[illegible]
1891—Apr. 9	100	65	100	100	85	38	35	45	35	85	85	45	35	45	35	100	[illegible]	[illegible]
June 20	100	65	100	100	85	38	35	45	35	45	35	45	35	45	35	100	[illegible]	[illegible]

NEW YORK, N Y., TO MEMPHIS, TENN.—Continued.

Boston, 1,371 miles; Philadelphia, 1,068 miles; Baltimore, 972 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																					
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
51	51	41	41	110	120	41	41	110	110	110	110	41	41	51	51	110	Sp'l rate.	51	110	110	95	95
41	41	37	37	63	68	37	37	63	63	63	63	37	37	41	41	63	.do .	41	63	63	58	58
56	56	47	47	84	94	47	47	84	84	84	84	47	47	56	56	84	.do .	56	84	84	73	73
61	61	61	61	130	145	61	61	130	130	130	130	61	61	74	74	130	.do .	74	130	130	110	110
71	71	56	56	107	114	56	56	107	107	107	107	56	56	71	71	107	.do .	71	107	107	93	93
65	65	65	65	107	114	65	65	65	65	107	107	65	65	65	65	107	.do .	65	107	65	65	65
67	67	67	67	109	116	67	67	67	67	109	109	67	67	67	67	109	.do .	67	109	67	67	67
65	65	65	65	97	114	65	65	65	65	97	97	65	65	65	65	97	.do .	65	97	65	65	65
63	63	63	63	93	114	63	63	63	63	93	93	63	63	63	63	93	.do .	63	93	63	63	63
49	49	49	49	87	107	49	49	49	49	87	87	49	49	49	49	87	.do .	49	87	49	49	49
35	35	35	35	50	75	35	35	35	35	50	50	35	35	35	35	50	.do .	35	50	35	35	35
41	41	41	41	63	83	41	41	41	41	63	63	41	41	41	41	63	.do .	41	63	41	41	41
45	45	45	45	80	100	45	45	45	45	80	80	45	45	45	45	80	.do .	45	80	45	45	45
44	44	53	53	82	99	53	53	53	53	82	82	53	53	53	53	82	.do .	53	82	53	53	53
52	52	57	57	99	116	57	57	57	57	99	99	57	57	57	57	99	.do .	57	99	57	57	57
44	44	53	53	82	99	53	53	44	44	82	82	53	53	53	53	82	.do .	53	82	53	53	53
58	58	58	58	93	114	58	58	58	58	93	93	58	58	58	58	93	.do .	58	93	58	58	58
48	48	58	58	93	114	58	58	58	58	93	93	58	58	58	58	93	.do .	58	93	58	58	58
44	44	58	58	93	114	58	58	58	58	93	93	58	58	58	58	93	.do .	58	93	58	58	58
42	42	56	56	91	112	56	56	56	56	91	91	56	56	56	56	91	.do .	56	91	56	56	56
20	20	25	25	35	40	25	25	25	25	35	35	25	25	25	25	35	.do .	25	35	25	25	25
39	39	42	42	65	80	42	42	42	42	65	65	42	42	42	42	65	.do .	42	65	42	42	42
44	44	50	50	86	102	50	50	50	50	86	86	50	50	50	50	86	.do .	50	86	50	50	50
50	44	50	44	86	102	50	44	70	50	70	50	50	44	50	44	86	.do .	44	50	44	70	44
45	35	45	35	85	100	45	38	65	45	65	45	45	35	45	38	85	65	38	45	38	65	38
45	38	45	35	85	100	45	38	65	45	65	45	45	35	45	38	85	65	38	45	38	65	38
45	38	45	35	85	100	45	38	65	45	65	45	45	35	38	35	85	65	38	45	38	65	38
45	38	45	35	85	100	45	38	65	45	65	45	45	35	38	35	85	65	38	45	38	65	38

TABLE 26.—RATES OF FREIGHT, ALL RAIL, PER 100 POUNDS, FROM NEW YORK TO CHICAGO, BY THE SHORTEST DISTANCE VIA SHORTEST ROUTE.—From New York, 999 miles; to Chicago, 912 miles.

[NOTE.—Where the rates shown are not specifically described as applying on . . .

Date.		Commodities (rates in cents per 100 pounds).																			
		Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.		Sugar	
											Castile and fancy.		Common.							
					Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.				
1867—Jan.	1	255	255	255	255	255	255	255	215	215	215	215	170	170	215	215	255			
May	15	262	262	262	262	262	262	262	223	223	224	223	177	177	223	223	262			
Nov.	5	280	280	280	280	280	280	280	234	234	234	234	189	189	234	234	280			
1868—Feb.	4	280	280	280	280	280	280	280	Special rate.		223	223	126	126	189	189	280			
June	4	262	262	262	262	262	262	262	..do....		223	223	122	122	177	177	262			
Aug.	10	205	205	205	205	205	205	205	..do....		176	176	100	100	140	140	205			
Oct.	1	108	108	108	108	108	108	108	..do....		96	96	75	75	87	87	108			
Dec.	7	205	205	205	205	205	205	205	..do....		176	176	100	100	140	140	205			
1869—Feb.	17	70	70	70	70	70	70	70	..do....		69	69	65	65	67	67	70			
Mar.	15	176	176	176	176	176	176	176	..do....		176	176	100	100	140	140	176			
Aug.	2	88	88	88	88	88	88	88	..do....		83	83	75	75	77	77	88			
Aug.	3	70	70	70	70	70	70	70	..do....		69	69	65	65	67	67	70			
Aug.	11	53	53	53	53	53	53	53	..do....		51	51	48	48	49	49	53			
Aug.	23	80	80	80	80	80	80	80	..do....		75	75	68	68	71	71	80			
Sept.	22	73	73	73	73	73	73	73	..do....		68	68	61	61	64	64	73			
Sept.	24	70	70	70	70	70	70	70	..do....		65	65	58	58	61	61	70			
Nov.	1	187	187	187	187	187	187	187	..do....		165	165	109	109	134	134	187			
1870 May	7	187	187	187	187	187	187	187	..do....		165	165	109	109	134	134	187			
July	15	123	123	123	123	123	123	123	..do....		107	107	75	75	89	89	123			
July	21	120	120	120	120	120	120	120	..do....		108	108	79	79	94	94	120			
July	25	117	117	117	117	117	117	117	..do....		102	102	72	72	88	88	117			
July	28	100	100	100	100	100	100	100	..do....		93	93	72	72	84	84	100			
Aug.	12	100	100	100	100	100	100	100	..do....		93	93	79	79	84	84	100			
Aug.	24	141	141	141	141	141	141	141	..do....		125	125	80	80	101	101	141			
Sept.	8	173	173	173	173	173	173	173	..do....		153	153	94	94	120	120	173			
Nov.	28	204	204	204	204	204	204	204	..do....		168	168	90	90	134	134	204			
Dec.	26	204	204	204	204	204	204	204	81	81	168	168	90	90	134	134	204			
1871—Feb.	20	182	182	182	182	182	182	182	72	72	159	159	96	96	129	129	182			
Mar.	7	141	141	141	141	141	141	141	64	64	125	125	80	80	101	101	141			
Mar.	27	143	143	143	143	143	143	143	67	67	128	128	80	80	102	102	143			
Mar.	29	135	135	135	135	135	135	135	66	66	122	122	66	66	97	97	135			
Apr.	29	115	115	115	115	115	115	115	56	56	104	104	65	65	83	83	115			
July	26	95	95	95	95	95	95	95	53	53	90	90	62	62	77	77	95			
July	28	74	74	74	74	74	74	74	51	51	72	72	63	63	63	63	74			
Aug.	16	72	72	72	72	72	72	72	45	45	70	70	63	63	67	67	72			
Aug.	17	70	70	70	70	70	70	70	45	45	70	70	63	63	67	67	70			
Aug.	21	85	85	85	85	85	85	85	53	53	175	175	65	65	70	70	85			
Nov.	27	115	115	115	115	115	115	115	56	56	104	104	65	65	83	83	115			
Dec.	15	168	168	168	168	168	168	168	72	72	149	149	91	91	117	117	168			
1872—Apr.	27	167	167	167	167	167	167	167	72	72	148	148	91	91	116	116	167			
Aug.	1	110	110	110	110	110	110	110	53	53	102	102	68	68	88	88	110			
Aug.	16	101	101	101	101	101	101	101	50	50	95	95	64	64	83	83	101			
Sept.	1	167	167	167	167	167	167	167	72	72	148	148	91	91	116	116	167			
Sept.	9	137	137	137	137	137	137	137	64	64	123	123	78	78	98	98	137			
Oct.	14	163	163	163	163	163	163	163	69	69	144	144	89	89	114	114	163			
1873—Apr.	14	137	137	137	137	137	137	137	64	64	123	123	84	84	103	103	137			
June	11	110	110	110	110	110	110	110	53	53	102	102	68	68	88	88	110			
Aug.	12	73	73	73	73	73	73	73	48	48	70	70	52	52	56	56	73			
Sept.	17	110	110	110	110	110	110	110	53	53	102	102	68	68	88	88	110			
1874—Jan.	1	137	137	137	137	137	137	137	64	64	123	123	84	84	103	103	137			
Feb.	17	115	115	115	115	115	115	115	75	75	105	105	75	75	90	90	115			
Aug.	3	101	101	101	101	101	101	101	50	50	95	95	64	64	83	83	101			
1875—Jan.	20	115	115	115	115	115	115	115	75	75	105	105	75	75	90	90	115			
Mar.	17	101	101	101	101	101	101	101	44	44	95	95	64	64	83	83	101			
June	15	59	59	59	59	59	59	59	53	53	59	59	53	53	53	53	59	41		
Sept.	9	67	67	67	67	67	67	67	34	34	63	63	42	42	50	50	67			
Nov.	15	103	103	103	103	103	103	103	50	50	95	95	63	63	82	82	103			
Dec.	22	56	56	56	56	56	56	56	29	29	48	48	36	36	39	39	56			
Dec.	24	115	115	115	115	115	115	115	60	60	105	105	75	75	90	90	115			
1876—Jan.	10	103	103	103	103	103	103	103	50	50	95	95	63	63	82	82	103			
June	2	103	103	103	103	103	103	103	34	34	95	95	42	42	82	82	103			
June	12	51	51	51	51	51	51	51	30	30	48	48	32	32	43	43	51			
Dec.	18	77	77	77	77	77	77	77	40	40	69	69	47	47	60	60	77			
1877—Mar.	13	125	125	125	125	125	125	125	55	55	115	115	69	69	100	100	125			

NEW YORK, N. Y., TO NASHVILLE, TENN.

Boston, 1,202 miles; Philadelphia, 909 miles; Baltimore, 813 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																						
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
118	118	118	118	215	255	215	215	215	215	215	215	118	118	118	118	215	255	255	215	215	170	170
122	122	122	122	223	262	223	223	223	223	223	223	122	122	122	122	223	262	262	223	223	177	177
126	126	126	126	234	280	234	234	234	234	234	234	126	126	126	126	234	280	280	234	234	189	189
Special rate.		126	126	234	280	234	234	234	234	234	234	126	126	126	126	234	280	280	234	234	189	189
..do....		122	122	223	262	223	223	223	223	223	223	122	122	122	122	223	262	262	223	223	177	177
..do....		100	100	176	205	176	176	176	176	176	176	100	100	100	100	176	205	205	176	176	140	140
..do....		75	75	96	108	96	96	96	96	96	96	75	75	75	75	96	108	108	96	96	87	87
..do....		100	100	176	205	176	176	176	176	176	176	100	100	100	100	176	205	205	176	176	140	140
..do....		65	65	69	70	69	69	69	69	69	69	65	65	65	65	69	70	70	69	69	67	67
..do....		100	100	176	176	Special rate.		176	176	176	176	100	100	100	100	176	176	176	176	176	140	140
..do....		75	75	83	88	..do....		83	83	83	83	75	75	75	75	83	88	88	83	83	77	77
..do....		65	65	69	70	..do....		69	69	69	69	65	65	65	65	69	70	70	69	69	67	67
..do....		48	48	51	53	..do....		51	51	51	51	48	48	48	48	51	53	53	51	51	49	49
..do....		68	68	75	80	..do....		75	75	75	75	68	68	68	68	75	80	80	75	75	71	71
..do....		61	61	68	73	..do....		68	68	68	68	61	61	61	61	68	73	73	68	68	64	64
..do....		58	58	65	70	..do....		65	65	65	65	58	58	58	58	65	70	70	65	65	61	61
..do....		109	109	165	187	..do....		165	165	165	165	109	109	109	109	165	187	187	165	165	134	134
..do....		165	187	..do....		165	165	165	165	165	165	109	109	109	109	165	187	187	165	165	134	134
		Special rate.																				
..do....		..do....		107	123	..do....		107	107	107	107	75	75	75	75	107	123	123	107	107	89	89
..do....		..do....		108	120	..do....		108	108	108	108	79	79	79	79	108	120	120	108	108	94	94
..do....		..do....		102	117	..do....		102	102	102	102	72	72	72	72	102	117	117	102	102	88	88
..do....		..do....		93	100	..do....		93	93	93	93	72	72	72	72	93	100	100	93	93	84	84
..do....		..do....		93	100	..do....		93	93	93	93	79	79	79	79	93	100	100	93	93	84	84
..do....		..do....		125	141	..do....		125	125	125	125	80	80	80	80	125	141	141	125	125	101	101
..do....		..do....		153	173	..do....		153	153	153	153	94	94	94	94	153	173	173	153	153	120	120
..do....		..do....		168	204	..do....		168	168	168	168	90	90	90	90	168	204	204	168	168	134	134
90	90	90	90	168	204	168	168	168	168	168	168	90	90	90	90	168	204	204	168	168	134	134
96	96	96	96	159	182	72	72	159	159	159	159	72	72	96	96	159	182	182	159	159	12	129
80	80	80	80	125	141	64	64	125	125	125	125	64	64	80	80	125	141	141	125	125	101	101
80	80	80	80	128	143	67	67	128	128	128	128	67	67	80	80	128	143	143	128	128	102	102
66	66	66	66	122	135	66	66	122	122	122	122	66	66	66	66	122	135	135	122	122	97	7
65	65	65	65	104	115	56	56	104	104	104	104	56	56	65	65	104	115	115	104	104	83	83
62	62	62	62	90	95	53	53	90	90	90	90	53	53	62	62	90	95	95	90	90	77	79
63	63	63	63	72	74	51	51	72	72	72	72	51	51	63	63	72	74	74	72	72	69	69
63	63	63	63	70	72	45	45	70	70	70	70	45	45	63	63	70	72	72	70	70	67	67
63	63	63	63	70	70	45	45	70	70	70	70	45	45	63	63	70	70	70	70	70	67	67
65	65	65	65	175	85	53	53	75	75	75	75	53	53	65	65	75	85	85	75	75	70	70
65	65	65	65	104	115	56	56	104	104	104	104	56	56	65	65	104	115	115	104	104	83	83
91	91	91	91	149	168	149	149	149	149	149	149	72	72	91	91	149	168	168	149	149	117	117
91	91	91	91	148	167	148	148	148	148	148	148	72	72	91	91	148	167	167	148	148	116	116
68	68	53	53	102	110	102	102	102	102	102	102	53	53	68	68	102	110	110	102	102	88	88
64	64	50	50	95	101	95	95	95	95	95	95	50	50	64	64	95	101	101	95	95	83	83
91	91	91	91	148	167	148	148	148	148	148	148	72	72	91	91	148	167	167	148	148	116	116
78	78	64	64	123	137	123	123	123	123	123	123	64	64	78	78	123	137	137	123	123	98	98
89	89	69	69	144	163	69	69	144	144	144	144	69	69	89	89	144	163	163	144	144	114	114
84	84	64	64	123	137	64	64	123	123	123	123	64	64	84	84	123	Spl rate.	84	123	123	103	103
68	68	53	53	102	110	53	53	102	103	102	102	53	53	68	68	102	..do..	68	102	102	88	88
52	52	48	48	70	73	48	48	70	70	70	70	48	48	52	52	70	..do..	52	70	70	56	56
68	68	53	53	102	110	53	53	102	102	102	102	53	53	68	68	102	..do..	68	102	102	88	88
84	84	64	64	123	137	64	64	123	123	123	123	64	64	84	84	123	..do..	84	123	123	103	103
75	75	60	60	105	115	60	60	105	105	105	105	60	60	75	75	105	..do..	75	105	105	90	90
64	64	50	50	95	101	50	50	95	95	95	95	50	50	64	64	95	..do..	64	95	95	83	83
75	75	60	60	105	115	60	60	105	105	105	105	60	60	75	75	105	..do..	75	105	105	90	90
64	64	50	50	95	101	50	50	95	95	95	95	50	50	64	64	95	..do..	64	95	95	83	83
53	53	41	41	59	59	41	41	59	59	59	59	41	41	53	53	59	..do..	53	59	59	51	53
42	42	34	34	63	67	34	34	63	63	63	63	34	34	42	42	63	..do..	42	63	63	50	50
63	63	50	50	95	103	50	50	95	95	95	95	50	50	63	63	95	..do..	63	95	95	82	82
30	36	29	29	48	56	29	29	48	48	48	48	29	29	36	36	48	..do..	36	48	48	39	39
75	75	60	60	105	115	60	60	105	105	105	105	60	60	75	75	105	..do..	75	105	105	90	90
63	63	50	50	95	103	50	50	95	95	95	95	50	50	63	63	95	..do..	63	95	95	82	82
42	42	34	34	95	103	34	34	95	95	95	95	34	34	42	42	95	..do..	42	95	95	82	42
32	32	30	30	48	51	30	30	48	48	48	48	30	30	32	32	48	..do..	32	48	48	45	45
47	47	40	40	69	77	40	40	69	69	69	69	40	40	47	47	69	..do..	47	69	69	60	60
69	69	55	55	115	125	55	55	115	115	115	115	55	55	69	69	115	..do..	69	115	115	100	110

TABLE 26.—RATES OF FREIGHT, ALL RAIL, FI[illegible]

DISTANCE VIA SHORTEST ROUTE.—From New York, 999 miles

[NOTE.—Where the rates shown are not specifically described as applying on[illegible]

Date.	Commodities (rates in cents per 100 pounds).																	
				Furniture.		Stoves.		Coffee.		Soap.				Starch.		Sugar		
										Castile and fancy.		Common.						
	Dry goods.	Cotton piece goods.	Boots and shoes.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Tea.	Less than carloads.	Carloads.
1877—Sept. 10	100	100	100	100	100	100	100	49	49	94	94	63	63	82	82	100	49	[illegible]
Oct. 8	125	125	125	125	125	125	57	57	57	115	115	57	57	57	57	125	57	[illegible]
Oct. 22	113	113	113	113	113	113	55	55	55	102	102	55	55	55	55	113	55	[illegible]
1878—Feb. 15	100	100	100	100	100	100	57	57	57	84	84	57	57	57	57	100	57	[illegible]
Mar. 4	100	100	100	100	100	100	55	55	55	82	82	55	55	55	55	100	55	[illegible]
1880—Feb. 12	93	93	93	93	93	93	53	53	53	76	76	53	53	53	53	93	53	[illegible]
1881—Aug. 6	65	65	65	65	65	65	30	30	30	50	50	30	30	30	30	65	30	[illegible]
Nov. 14	69	69	69	69	69	69	33	33	33	52	52	33	33	33	33	69	33	[illegible]
1882—Jan. 22	83	83	83	83	83	83	37	37	37	64	64	37	37	37	37	83	37	[illegible]
June 28	94	94	94	94	94	94	49	49	49	78	78	49	49	49	49	94	49	[illegible]
July 1	99	99	99	99	99	99	49	49	49	78	78	49	49	49	49	99	49	[illegible]
Nov. 1	109	109	109	109	109	109	54	54	54	89	89	54	54	54	54	109	54	[illegible]
1883—June 22	109	109	109	109	109	109	54	54	54	89	89	54	54	54	54	109	44	[illegible]
1885—Jan. 1	107	107	107	107	107	107	52	52	52	87	87	52	52	52	52	107	42	[illegible]
Jan. 26	40	40	40	40	40	40	25	25	25	35	35	25	25	25	25	40	20	[illegible]
June 1	75	75	75	75	75	75	37	37	37	60	60	37	37	37	37	75	34	[illegible]
Oct. 5	97	65	97	97	97	95	47	45	45	81	81	45	45	45	45	97	39	[illegible]
1890—Apr. 21	91	60	91	91	78	60	36	42	31	78	78	42	36	42	31	91	42	[illegible]
1891—Apr. 9	91	60	91	91	78	36	31	42	31	78	78	42	31	42	31	91	42	[illegible]
June 20	91	60	91	91	78	36	31	42	31	42	31	42	31	42	31	91	42	[illegible]

NEW YORK, N. Y., TO NASHVILLE, TENN.—Continued.

Boston, 1,202 miles; Philadelphia, 909 miles; Baltimore, 813 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																							
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
63	63	49	49	94	100	49	49	94	94	94	94	49	49	63	63	94	Sp'l rate.	63	94	94	82	52
57	57	57	57	115	125	57	57	57	57	115	115	57	57	57	57	115	.do.	57	115	57	57	57
55	55	55	55	102	113	55	55	55	55	102	102	55	55	55	55	102	.do.	55	102	55	55	55
57	57	57	57	84	100	57	57	57	57	84	84	57	57	57	57	84	.do.	57	84	57	57	57
55	55	55	55	82	100	55	55	55	55	82	82	55	55	55	55	82	.do.	55	82	55	55	53
53	53	53	53	76	93	53	53	53	53	76	76	53	53	53	53	76	.do.	53	76	53	53	53
30	30	30	30	50	65	30	30	30	30	50	50	30	30	30	30	50	.do.	30	50	30	30	30
33	33	33	33	52	69	33	33	33	33	52	52	33	33	33	33	52	.do.	33	52	33	33	33
37	37	37	37	64	83	37	37	37	37	64	64	37	37	37	37	64	.do.	37	64	37	37	37
49	49	49	49	78	94	49	49	49	49	78	78	49	49	49	49	78	.do.	49	78	49	49	49
49	49	49	49	78	99	49	49	49	49	78	78	49	49	49	49	78	.do.	49	78	49	49	49
54	54	54	54	89	109	54	54	54	54	89	89	54	54	54	54	89	.do.	54	89	54	54	54
44	44	54	54	89	109	54	54	54	54	89	89	54	54	54	54	89	.do.	54	89	54	54	54
42	42	52	52	87	107	52	52	52	52	87	87	52	52	52	52	87	.do.	52	87	52	52	52
20	20	25	25	35	40	25	25	25	25	35	35	25	25	25	25	35	.do.	25	35	25	25	25
34	34	37	37	60	75	37	37	37	37	60	60	37	37	37	37	60	.do.	37	60	37	37	37
39	39	45	45	81	97	45	45	45	45	81	81	45	45	45	45	81	.do.	45	81	45	45	45
42	36	42	31	78	91	42	36	60	42	60	42	42	31	42	36	78	60	36	42	36	60	36
42	36	42	31	78	91	42	36	60	42	60	42	42	31	36	31	78	60	36	42	36	60	36
42	36	42	31	78	91	42	36	60	42	60	42	42	31	36	31	78	60	36	42	36	60	36

TABLE 28.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE, VIA SHORTEST ROUTE.—From New York, 757 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.	Commodities (rates in cents per 100 pounds).																	
				Furniture.		Stoves.		Coffee.		Soap.				Starch.			Sugar	
										Castile and fancy.		Common.						
	Dry goods.	Cotton piece goods.	Boots and shoes.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Tea.	Less than carloads.	Carloads.
1873—Aug. 16.....	37	37	37	37	37	37	37	28	28	87	87	28	28	28	28	37	28	28
Sept. 17.....	70	70	70	70	70	70	70	32	32	64	64	41	41	55	55	70	32	32
1874—Jan. 1.....	92	92	92	92	92	92	92	41	41	83	83	55	55	70	70	92	41	41
Aug. 3.....	70	70	70	70	70	70	70	32	32	64	64	41	41	55	55	70	32	32
1875—Jan. 20.....	92	92	92	92	92	92	92	41	41	83	83	55	55	70	70	92	41	41
Feb. 23.....	92	92	92	92	92	92	92	41	28	83	83	55	55	70	70	92	41	28
Mar. 17.....	70	70	70	70	70	70	70	28	28	64	64	41	41	55	55	70	28	28
Apr. 6.....	55	55	55	55	55	55	55	28	28	51	51	37	37	46	46	55	28	28
Apr. 23.....	40	40	40	40	40	40	40	25	25	40	40	35	35	35	35	40	25	25
May 18.....	40	40	40	40	40	40	40	25	25	40	40	35	35	35	35	40	25	25
May 29.....	28	28	28	28	28	28	28	19	19	28	28	23	23	25	25	28	19	19
Aug. 12.....	46	46	46	46	46	46	46	19	19	37	37	23	23	28	28	46	19	19
Nov. 15.....	70	70	70	70	70	70	70	32	32	64	64	41	41	55	55	70	32	32
Dec. 22.....	30	30	30	30	30	30	30	15	15	25	25	20	20	20	20	30	15	15
1876—Jan. 10.....	70	70	70	70	70	70	70	32	32	64	64	41	41	55	55	70	32	32
June 2.....	70	70	70	70	70	70	70	20	20	64	64	25	25	55	55	70	20	20
June 12.....	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25	16	16
July 28.....	15	15	15	15	15	15	15	10	10	15	15	10	10	15	15	15	10	10
Aug. 7.....	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25	16	16
Dec. 18.....	46	46	46	46	46	46	46	23	23	41	41	28	28	37	37	46	23	23
1877—Mar. 12.....	70	70	70	70	70	70	70	32	32	64	64	41	41	55	55	70	32	32
Oct. 8.....	70	70	70	70	70	70	37	37	37	64	64	37	37	37	37	70	37	37
Oct. 22.....	92	92	92	92	92	92	41	41	41	83	83	41	41	41	41	92	41	41
Dec. 10.....	92	92	92	92	92	92	41	41	41	73	73	41	41	41	41	92	41	41
1878—Feb. 15.....	70	70	70	70	70	70	37	37	37	55	55	37	37	37	37	70	37	37
1881—Aug. 6.....	41	41	41	41	41	41	18	18	18	29	29	18	18	18	18	41	18	18
Nov. 14.....	55	55	55	55	55	55	26	26	26	46	46	26	26	26	26	55	26	26
1882—Jan. 24.....	41	41	41	41	41	41	18	18	18	32	32	18	18	18	18	41	18	18
June 22.....	70	70	70	70	70	70	32	32	32	55	55	32	32	32	32	70	23	23
July 1.....	55	55	55	55	55	55	28	28	28	46	46	28	28	28	28	55	23	23
Nov. 1.....	70	70	70	70	70	70	32	32	32	55	55	32	32	32	32	70	23	23
1883—June 22.....	70	70	70	70	70	70	32	32	32	55	55	32	32	32	32	70	23	23
1885—Jan. 26.....	46	46	46	46	46	46	23	23	23	37	37	23	23	23	23	46	17	17
June 1.....	37	37	37	37	37	37	17	17	17	28	28	17	17	17	17	37	14	14
Oct. 5.....	55	55	55	55	55	55	23	23	23	46	46	23	23	23	23	55	18	18
Nov. 18.....	70	70	70	70	70	70	32	32	32	55	55	32	32	32	32	70	23	23
1886—Mar. 10.....	65	65	65	65	65	65	30	30	30	52	52	30	30	30	30	65	22	22
Aug. 26.....	65	44	65	65	65	65	30	30	30	52	52	30	30	30	30	65	22	22
1887—Apr. 1.....	65	44	65	65	57	44	26	30	22	57	57	30	26	30	22	65	30	22
1888—Jan. 9.....	65	44	65	65	57	44	29	33	24	57	57	33	29	33	24	65	32	24
Mar. 5.....	65	44	65	65	57	44	26	30	22	57	57	30	26	30	22	65	30	22
Nov. 12.....	44	30	44	44	35	30	22	26	17	35	35	26	22	26	17	44	26	17
Dec. 17.....	65	44	65	65	57	44	26	30	22	57	57	30	26	30	22	65	30	22
1891—Apr. 9.....	65	44	65	65	57	26	22	30	22	57	57	30	22	30	22	65	30	22
1892—Mar. 6.....	65	44	65	65	57	26	22	30	22	30	22	30	22	30	22	65	30	22
May 2.....	65	44	65	65	57	26	22	30	22	30	22	30	22	30	22	65	30	22
June 6.....	65	44	65	65	57	26	22	30	22	30	22	30	22	30	22	65	30	22

NEW YORK, N. Y., TO LOUISVILLE, KY.

Boston, 1,017 miles; Philadelphia, 777 miles; Baltimore, 703 miles.

[Less than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																							
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
88	88	88	88	170	200	170	170	170	170	170	170	88	88	88	88	170	200	200	170	170	135	135
97	97	97	97	183	212	183	183	183	183	183	183	97	97	97	97	183	212	212	183	183	147	147
101	101	101	101	194	230	194	194	194	194	194	194	101	101	101	101	194	230	230	194	194	159	159
Special rate.		101	101	194	230	194	194	194	194	194	194	101	101	101	101	194	230	230	194	194	159	159
do.....		97	97	183	212	183	183	183	183	183	183	97	97	97	97	183	212	212	183	183	147	147
do.....		97	97	148	172	148	148	148	148	148	148	97	97	97	97	148	172	172	148	148	139	139
do.....		97	97	183	212	183	183	183	183	183	183	97	97	97	97	183	212	212	183	183	147	147
do.....		60	60	68	75	68	68	68	68	68	68	60	60	60	60	68	75	75	68	68	65	65
do.....		101	101	194	230	194	194	194	194	194	194	101	101	101	101	194	230	230	194	194	159	159
do.....		97	97	183	212	183	183	183	183	183	183	97	97	97	97	183	212	212	183	183	147	147
do.....		55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
do.....		97	97	183	183	183	183	183	183	183	183	97	97	97	97	183	183	183	183	183	147	147
do.....		97	97	183	183	Special rate.		183	183	183	183	97	97	97	97	183	183	183	183	183	147	147
do.....		55	55	55	55	do.....		55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
do.....		97	97	183	212	do.....		183	183	183	183	97	97	97	97	183	212	212	212	212	147	147
do.....		55	55	55	55	do.....		55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
do.....		37	37	37	37	do.....		37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
do.....		50	50	50	50	do.....		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
do.....		55	55	55	55	do.....		55	55	55	55	55	55	55	55	55	55	55	55	55	55	55
do.....		48	48	48	48	do.....		48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
do.....		45	45	45	45	do.....		45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
do.....		63	63	63	63	do.....		63	63	63	63	63	63	63	63	63	93	63	63	63	63	63
do.....		63	63	90	90	do.....		90	90	90	90	63	63	63	63	90	90	90	90	90	90	90
do.....		80	80	118	145	do.....		118	118	118	118	80	80	80	80	118	145	145	118	118	90	90
do.....		96	96	145	162	do.....		145	145	145	145	96	96	96	96	145	162	162	145	145	118	118
do.....		96	96	150	173	do.....		150	150	150	150	96	96	96	96	150	173	173	150	150	118	118
do.....		Special rate.		150	173	do.....		150	150	150	150	96	96	96	96	150	173	173	150	150	118	118
do.....		96	96	150	173	do.....		150	150	150	150	96	96	96	96	150	173	173	150	150	118	118
do.....		Special rate.		150	173	do.....		150	150	150	150	96	96	96	96	150	173	173	150	150	118	118
do.....		do.....		106	123	do.....		106	106	106	106	64	64	64	64	106	123	123	106	106	82	82
do.....		do.....		82	94	do.....		82	82	82	82	59	59	59	59	82	94	94	82	82	69	69
do.....		do.....		82	90	do.....		82	82	82	82	59	59	59	59	82	90	90	82	82	69	69
do.....		do.....		75	80	do.....		75	75	75	75	59	59	59	59	75	80	80	75	75	63	63
do.....		do.....		69	77	do.....		69	69	69	69	52	52	52	52	69	77	77	69	69	63	63
do.....		do.....		60	60	do.....		60	60	60	60	52	52	52	52	60	60	60	60	60	69	69
do.....		do.....		60	60	do.....		60	60	60	60	59	59	59	59	60	60	60	60	60	69	69
do.....		do.....		100	112	do.....		100	100	100	100	64	64	64	64	100	112	112	100	100	81	81
do.....		do.....		128	144	do.....		128	128	128	128	78	78	78	78	128	144	144	128	128	100	100
do.....		do.....		143	175	do.....		143	143	143	143	74	74	74	74	143	175	175	143	143	114	114
90	90	90	90	166	198	166	166	166	166	166	166	90	90	90	90	166	198	198	166	166	123	123
81	81	81	81	143	166	64	64	143	143	143	143	64	64	81	81	143	166	166	143	143	114	114
64	64	64	64	100	112	52	52	100	100	100	100	52	52	64	64	100	112	112	100	100	82	82
64	64	64	64	103	114	55	55	103	103	103	103	55	55	64	64	103	114	114	103	103	82	82
53	53	53	75	86	45	45	75	75	75	75	45	45	53	53	75	86	86	75	75	75	60	60
64	64	64	64	114	55	55	103	103	103	103	55	55	64	64	103	114	114	103	103	82	82	82
53	53	53	75	86	45	45	75	75	75	75	45	45	53	53	75	86	86	75	75	60	60	60
48	48	48	48	65	70	40	40	65	65	65	65	40	40	48	48	65	70	70	65	65	56	56
53	53	53	53	56	56	43	43	56	56	56	56	43	43	53	53	56	56	56	56	56	56	56
45	45	45	45	45	45	35	35	45	45	45	45	35	35	45	45	45	45	45	45	45	45	45
38	38	38	38	38	38	27	27	38	38	38	38	27	27	38	38	38	38	38	38	38	58	58
64	64	64	64	103	114	55	55	103	103	103	103	55	55	64	64	103	114	114	103	103	82	82
75	75	75	75	123	139	123	123	123	123	123	123	59	59	75	75	123	139	139	123	123	97	97
75	75	59	59	123	139	123	123	123	123	123	123	59	59	75	75	123	139	139	123	123	97	97
75	75	60	60	123	139	123	123	123	123	123	123	60	60	76	76	123	139	139	123	123	97	97
55	55	44	44	81	81	81	81	81	81	81	81	44	44	55	55	81	86	86	81	81	71	71
76	76	76	76	123	139	123	123	123	123	123	123	60	60	76	76	123	139	139	123	123	97	97
65	65	55	55	102	113	102	102	102	102	102	102	55	55	65	65	102	113	113	102	102	81	81
76	76	60	60	123	139	60	60	123	123	123	123	60	60	76	76	123	139	139	123	123	97	97
71	71	55	55	102	113	55	55	102	102	102	102	55	55	71	71	102	Sp'l rate.	71	102	102	86	86
55	55	44	44	81	86	44	44	81	81	81	81	44	44	55	55	81	do.	55	81	81	71	71

TABLE 27.—RATES OF FREIGHT, ALL RAIL, FR

DISTANCE VIA SHORTEST ROUTE.—From New York, 867 m.

[NOTE.—Where the rates shown are not specifically described as applying o

Date.		Commodities (rates in cents per 100 pounds).																		
		Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar.	
											Castile and fancy.		Common.						
					Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	
1873—Aug.	11.....	49	49	49	49	49	49	49	39	39	49	49	39	39	39	39	49	3	
Aug.	16.....	48	48	48	48	48	48	48	38	38	48	48	38	38	38	38	48		
Aug.	26.....	49	49	49	49	49	49	49	39	39	49	49	39	39	39	39	49		
Sept.	17.....	86	86	86	86	86	86	86	44	44	81	81	55	55	71	71	86		
1874—Jan.	1.....	113	113	113	113	113	113	113	55	55	102	102	71	71	86	86	113		
Aug.	3.....	86	86	86	86	86	86	86	44	44	81	81	55	55	71	71	86		
1875—Jan.	20.....	113	113	113	113	113	113	113	55	55	102	102	71	71	86	86	113		
Feb.	23.....	113	113	113	113	113	113	113	39	39	102	102	71	71	86	86	113		
Mar.	17.....	86	86	86	86	86	86	86	44	44	81	81	55	55	71	71	86		
Apr.	6.....	71	71	71	71	71	71	71	39	39	65	65	49	49	60	60	71		
Apr.	23.....	50	50	50	50	50	50	50	35	35	50	50	45	45	45	45	50		
May	18.....	50	50	50	50	50	50	50	35	35	50	50	45	45	45	45	50		
May	29.....	38	38	38	38	38	38	38	27	27	38	38	33	33	35	35	38		
Aug.	12.....	60	60	60	60	60	60	60	28	28	49	49	34	34	39	39	60		
Nov.	15.....	86	86	86	86	86	86	86	44	44	81	81	55	55	71	71	86		
Dec.	22.....	39	39	39	39	39	39	39	23	23	34	34	28	28	28	28	39		
1876—Jan.	10.....	86	86	86	86	86	86	86	44	44	81	81	55	55	71	71	86		
June	2.....	86	86	86	86	86	86	86	28	28	81	81	34	34	71	71	86		
June	12.....	34	34	34	34	34	34	34	24	24	34	34	24	24	34	34	34		
July	28.....	23	23	23	23	23	23	23	18	18	23	23	18	18	23	23	23		
Aug.	7.....	34	34	34	34	34	34	34	24	24	34	34	24	24	34	34	34		
Dec.	18.....	60	60	60	60	60	60	34	34	55	55	39	39	49	49	60			
1877—Mar.	12.....	86	86	86	86	86	86	86	44	44	81	81	55	55	71	71	86		
Oct.	8.....	86	86	86	86	86	86	49	49	49	81	81	49	49	49	49	86		
Oct.	22.....	113	113	113	113	113	113	55	55	55	102	102	55	55	55	55	113		
Dec.	10.....	113	113	113	113	113	113	55	55	55	92	92	55	55	55	55	113		
1878—Feb.	10.....	86	86	86	86	86	86	49	49	49	71	71	49	49	49	49	86		
1880—July	1.....	83	83	83	83	83	83	46	46	46	68	68	46	46	46	46	83		
1881—Aug	6.....	52	52	52	52	52	52	24	24	24	38	38	24	24	24	24	52		
Nov.	14.....	68	68	68	68	68	68	34	34	34	57	57	34	34	34	34	68		
1882—Jan.	24.....	52	52	52	52	52	52	24	24	24	38	38	24	24	24	24	52		
July	1.....	68	68	68	68	68	68	36	36	36	57	57	36	36	36	36	68		
Nov.	1.....	83	83	83	83	83	83	41	41	41	68	68	41	41	41	41	83		
1883—June	22.....	83	83	83	83	83	83	41	41	41	68	68	41	41	41	41	83		
1885—Jan.	1.....	82	82	82	82	82	82	40	40	40	67	67	40	40	40	40	82		
Jan.	26.....	56	56	56	56	56	56	30	30	30	45	45	30	30	30	30	56		
June	1.....	45	45	45	45	45	45	22	22	22	35	35	22	22	22	22	45		
Oct.	5.....	67	67	67	67	67	67	30	30	30	56	56	30	30	30	30	67		
Nov.	18.....	82	82	82	82	82	82	40	40	40	67	67	40	40	40	40	82		
1886—Mar.	10.....	75	75	75	75	75	75	37	37	37	61	61	37	37	37	37	75		
Aug.	26.....	75	51	75	75	65	50	30	35	25	65	65	30	30	30	30	75		
1887—Apr.	1.....	75	51	75	75	65	50	30	35	25	65	65	35	30	35	25	75		
June	13.....	75	50	75	75	65	50	30	30	25	65	65	35	30	35	25	75		
1888—Jan.	9.....	75	50	75	75	65	50	33	33½	27½	65	65	33½	33	33½	27½	75		
Mar.	5.....	75	50	75	75	65	50	30	35	25	65	65	35	30	35	25	75		
Nov.	12.....	50	35	50	50	40	35	25	30	20	40	40	30	25	30	20	50		
Dec.	17.....	75	50	75	75	65	50	30	35	25	65	65	35	30	35	25	75		
1891—Apr.	9.....	75	50	75	75	65	30	25	35	25	65	65	35	25	35	25	75		
1892—Mar.	16.....	75	50	75	75	65	30	25	35	25	35	25	35	25	35	25	75		
May	2.....	75	50	75	75	65	30	25	35	25	35	25	35	25	35	25	75		

EW YORK, N. Y., TO LOUISVILLE, KY.—Continued.

oston, 1,017 miles; Philadelphia, 777 miles; Baltimore, 703 miles.

ian carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																					
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
39	39	39	39	49	49	39	39	49	49	49	49	39	39	39	39	49	Sp'l rate.	39	49	49	39	39
38	38	38	38	48	48	38	38	48	48	48	48	38	38	38	38	48	.do.	38	48	48	38	38
39	39	39	39	49	49	39	39	49	49	49	49	39	39	39	39	49	.do.	39	49	49	39	39
55	55	44	44	81	86	44	44	81	81	81	81	44	44	55	55	81	.do.	55	81	81	71	71
71	71	55	55	102	113	55	55	102	102	102	102	55	55	71	71	102	.do.	71	102	102	86	86
55	55	44	44	81	86	44	44	81	81	81	81	44	44	55	55	81	.do.	55	81	81	71	71
71	71	55	55	102	113	55	55	102	102	102	102	55	55	71	71	102	.do.	71	102	102	86	86
71	71	55	55	102	113	55	55	102	102	102	102	55	55	71	71	102	.do.	71	102	102	86	86
55	55	44	44	81	86	44	44	81	81	81	81	44	44	55	55	81	.do.	55	81	81	71	71
49	49	39	39	65	71	39	39	65	65	65	65	39	39	49	49	65	.do.	49	65	65	60	60
45	45	35	35	50	50	35	35	50	50	50	50	35	35	45	45	50	.do.	45	50	50	45	45
45	45	40	40	50	50	40	40	50	50	50	50	40	40	45	45	50	.do.	45	50	50	45	45
33	33	27	27	38	38	27	27	38	38	38	38	27	27	33	33	38	.do.	33	38	38	35	35
34	34	28	28	49	60	28	28	49	49	49	49	28	28	34	34	49	.do.	34	49	49	39	39
55	55	44	44	81	86	44	44	81	81	81	81	44	44	55	55	81	.do.	55	81	81	71	71
28	28	23	23	34	39	23	23	34	34	34	34	23	23	28	28	34	.do.	28	34	34	28	28
55	55	44	44	81	86	44	44	81	81	81	81	44	44	55	55	81	.do.	55	81	81	71	71
34	34	28	28	81	86	28	28	81	81	81	81	28	28	34	34	81	.do.	34	81	81	71	71
24	24	24	24	34	34	24	24	34	34	34	34	24	24	24	24	34	.do.	24	34	34	34	34
18	18	18	18	23	23	18	18	23	23	23	23	18	18	18	18	23	.do.	18	23	23	23	23
24	24	24	24	34	34	24	24	34	34	34	34	24	24	24	24	34	.do.	24	34	34	34	34
39	39	34	34	55	60	34	34	55	55	55	55	34	34	39	39	55	.do.	39	55	55	49	49
55	55	44	44	81	86	44	44	81	81	81	81	44	44	55	55	81	.do.	55	81	81	71	71
49	49	49	49	81	86	49	49	49	81	81	81	49	49	49	49	81	.do.	49	81	49	49	49
55	55	55	55	102	113	55	55	55	55	102	102	55	55	55	55	102	.do.	55	102	55	55	55
51	51	55	55	92	113	55	55	55	55	92	92	55	55	55	55	92	.do.	55	92	55	55	55
49	49	49	49	71	86	49	49	49	71	71	49	49	49	49	49	71	.do.	49	71	49	49	49
46	46	46	46	68	83	46	46	46	46	68	68	46	46	46	46	68	.do.	46	68	46	46	46
24	24	24	24	38	52	24	24	24	24	38	38	24	24	24	24	38	.do.	24	38	24	24	24
34	34	34	34	57	68	34	34	34	34	57	57	34	34	34	34	57	.do.	34	57	34	34	34
24	24	24	24	38	52	24	24	24	24	38	38	24	24	24	24	38	.do.	24	38	24	24	24
31	31	36	36	57	68	36	36	36	36	57	57	36	36	36	36	57	.do.	36	57	36	36	36
41	41	41	41	68	83	41	41	41	41	68	68	41	41	41	41	68	.do.	41	68	41	41	41
31	31	41	41	68	83	41	41	41	41	68	68	41	41	41	41	68	.do.	41	68	41	41	41
30	30	40	40	67	82	40	40	40	40	67	67	40	40	40	40	67	.do.	40	82	40	40	40
22	22	30	30	45	56	30	30	30	45	45	30	30	30	30	45	.do.	30	45	30	30	30	30
19	19	22	22	35	45	22	22	22	22	35	35	22	22	22	22	35	.do.	22	35	22	22	22
24	24	30	30	56	67	30	30	30	30	56	56	30	30	30	30	56	.do.	30	56	30	30	30
30	30	40	40	67	82	40	40	40	40	67	67	40	40	40	40	67	.do.	40	67	40	40	40
27	27	37	37	61	75	37	37	37	37	61	61	37	37	37	37	61	.do.	37	61	37	37	37
35	30	35	25	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
35	30	35	35	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
38½	33	38½	27½	65	75	38	33	50	38½	50	38½	38½	27½	38½	33	65	50	33	38½	33	50	33
35	30	35	35	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
30	25	30	20	40	50	30	25	30	35	35	30	30	20	30	25	40	35	25	30	25	35	25
35	30	35	25	65	75	35	30	50	35	50	35	35	25	35	30	65	50	30	35	30	50	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	30	25	65	50	30	35	30	50	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	30	25	65	50	30	35	30	50	30
35	30	35	25	65	75	35	30	50	35	50	35	35	25	30	25	65	50	30	35	30	50	30

TABLE 29.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 825 miles;

[NOTE.—Where the rates showed are not specifically described as applying on less

Date.	Commodities (rates in cents per 100 pounds.)																		
	Dry goods	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar.	
										Castile and fancy.		Common.						
				Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carload.		Less than carloads.	Carloads.
1875—Mar. 17.....	71	71	71	71	71	71	71	28	28	66	66	43	43	57	57	71	28	28
Apr. 6.....	57	57	57	57	57	57	57	28	28	52	52	38	38	47	47	57	28	28
May 18.....	51	51	51	51	51	51	51	25	25	47	47	34	34	43	42	51	25	25
May 29.....	28	28	28	28	28	28	28	19	19	28	28	24	24	26	26	28	19	19
Aug. 12.....	47	47	47	47	47	47	47	19	19	38	38	24	24	28	28	47	19	19
Nov. 15.....	71	71	71	71	71	71	71	33	33	66	66	43	43	57	57	71	33	33
Dec. 22.....	30	30	30	30	30	30	30	15	15	25	25	20	20	20	20	30	15	15
1876—Jan. 10.....	71	71	71	71	71	71	71	33	33	66	66	43	43	57	57	71	33	33
June 2.....	71	71	71	71	71	71	71	20	20	66	66	25	25	57	57	71	20	20
June 12.....	25	25	15	25	25	25	25	16	16	25	25	16	16	25	25	25	16	16
July 28.....	15	15	15	15	15	15	15	10	10	15	15	10	10	15	15	15	10	10
Aug. 7.....	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25	16	16
Dec. 18.....	47	47	47	47	47	47	47	24	24	43	43	28	28	38	38	47	24	24
1877—Mar. 12.....	71	71	71	71	71	71	71	33	33	66	66	43	43	57	57	71	33	33
Oct. 8.....	71	71	71	71	71	71	38	38	38	66	66	38	38	38	38	71	38	38
Oct. 22.....	95	95	95	95	95	95	43	43	43	85	85	43	43	43	43	95	43	43
Dec. 10.....	95	95	95	95	95	95	43	43	43	76	76	43	43	43	43	95	43	43
1878—Feb. 15.....	71	71	71	71	71	71	38	38	38	57	57	38	38	38	38	71	38	38
1881—Aug. 6.....	43	43	43	43	43	43	18	18	18	30	30	18	18	18	18	43	18	18
Nov. 14.....	57	57	57	57	57	57	27	27	27	47	47	27	27	27	27	57	27	27
1882—Jan. 24.....	43	43	43	43	43	43	18	18	18	32	32	18	18	18	18	43	18	18
July 1.....	57	57	57	57	57	57	28	28	28	47	47	28	28	28	28	57	24	24
Nov. 1.....	71	71	71	71	71	71	33	33	33	57	57	33	33	33	33	71	33	33
1883—June 22.....	71	71	71	71	71	71	33	33	33	57	57	33	33	33	33	71	24	24
1885—Jan. 26.....	47	47	47	47	47	47	24	24	33	38	38	24	24	24	24	47	17	17
June 1.....	38	38	38	38	38	38	17	17	17	28	28	17	17	17	17	38	14	14
Oct. 5.....	57	57	57	57	57	57	24	24	24	47	47	24	24	24	24	57	19	19
Nov. 18.....	71	71	71	71	71	71	33	33	33	57	57	33	33	33	33	71	24	24
1886—Mar. 10.....	70	70	70	70	70	70	33	33	33	56	56	33	33	33	33	70	23	23
Aug. 26.....	70	47	70	70	70	70	33	33	33	56	56	33	33	33	33	70	23	23
1887—Apr. 1.....	70	47	70	70	60	47	28	33	23	60	60	33	28	33	23	70	23	23
1888—Jan. 9.....	70	47	70	70	60	47	31	36	26	60	60	36	31	36	31	70	26	26
Mar. 5.....	70	47	70	70	60	47	28	33	23	60	60	33	28	33	23	70	23	23
Nov. 12.....	47	33	47	47	37	33	23	28	19	37	37	28	23	28	19	47	28	19
Dec. 17.....	70	47	70	70	60	47	28	33	23	60	60	33	28	33	23	70	23	23
1891—Apr. 9.....	70	47	70	70	60	28	23	33	23	60	60	33	23	33	23	70	23	23
1892—Mar. 16.....	70	47	70	70	60	28	23	33	23	33	23	33	23	33	23	70	23	20
May 2.....	70	47	70	70	60	28	23	33	23	33	23	33	23	33	23	70	23	23
June 6.....	70	47	70	70	60	28	23	33	23	33	23	33	23	33	23	70	23	21

NEW YORK, N. Y., TO CINCINNATI, OHIO.

Boston, 907 miles; Philadelphia, 667 miles; Baltimore, 593 miles.

[han carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																						
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
76	76	76	76	150	176	150	150	150	150	150	150	76	76	76	76	150	176	176	150	150	120	120
80	76	80	80	160	190	160	160	160	160	160	160	80	80	80	80	160	190	190	160	160	130	130
Special rate.		80	80	160	190	160	160	160	160	160	160	80	80	80	80	160	190	190	160	160	130	130
..do....		76	76	150	176	150	150	150	150	150	150	76	76	76	76	150	176	176	150	150	120	120
..do....		76	76	120	140	120	120	120	120	120	120	76	76	76	76	120	140	140	120	120	112	112
..do....		76	76	150	176	150	150	150	150	150	150	76	76	76	76	150*	176	176	150	150	120	120
..do....		45	45	56	60	56	56	56	56	56	56	45	45	45	45	56	60	60	56	56	50	50
..do....		80	80	160	190	160	160	160	160	160	160	80	80	80	80	160	190	190	160	160	130	130
..do....		76	76	150	176	150	150	150	150	150	150	76	76	76	76	150	176	176	150	150	120	120
..do....		40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
..do....		76	76	150	150	150	150	150	150	150	150	76	76	76	76	150	150	150	150	150	120	120
..do....		76	76	150	150	Special rate.		150	150	150	150	76	76	76	76	150	150	150	150	150	120	120
..do....		40	40	40	40	..do....		40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
..do....		76	76	150	176	..do....		150	150	150	150	76	76	76	76	150	176	176	150	150	120	120
..do....		40	40	40	40	..do....		40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
..do....		25	25	25	25	..do....		25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
..do....		35	35	35	35	..do....		35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
..do....		40	40	40	40	..do....		40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
..do....		35	35	35	35	..do....		35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
..do....		48	48	48	48	..do....		48	48	48	48	48	48	48	48	48	48	48	48	48	48	48
..do....		48	48	70	70	..do....		70	70	70	70	48	48	48	48	70	70	70	70	70	70	70
..do....		62	62	95	118	..do....		95	95	95	95	62	62	62	62	95	118	118	95	95	70	70
..do....		76	76	118	132	..do....		118	118	118	118	76	76	76	76	118	132	132	118	118	94	94
..do....		76	76	122	142	..do....		122	122	122	122	76	76	76	76	122	142	142	122	122	94	94
..do....		76	76	122	142	..do....		122	122	122	122	76	76	76	76	122	142	142	122	122	94	94
..do....		Special rate.	122	142	..do....		122	122	122	122	76	76	76	76	122	142	142	122	122	94	94	
..do....		..do....		80	100	..do....		80	80	80	80	50	50	50	50	80	100	100	80	80	65	65
..do....		..do....		65	74	..do....		65	65	65	65	45	45	45	45	65	74	74	65	65	55	55
..do....		..do....		65	70	..do....		65	65	65	65	45	45	45	45	65	70	70	65	65	55	55
..do....		..do....		60	65	..do....		60	60	60	60	45	45	45	45	60	65	65	60	60	55	55
..do....		..do....		54	60	..do....		54	54	54	54	40	40	40	40	54	60	60	54	54	50	50
..do....		..do....		45	45	..do....		45	45	45	45	40	40	40	40	45	45	45	45	45	45	45
..do....		..do....		45	45	..do....		45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
..do....		..do....		80	90	..do....		80	80	80	80	50	50	50	50	80	90	90	80	80	65	65
..do....		..do....		104	118	..do....		104	104	104	104	62	62	62	62	104	118	118	104	104	80	80
..do....		..do....		118	146	..do....		118	118	118	118	59	59	59	59	118	146	166	118	118	93	93
73	73	73	73	138	166	138	138	138	138	138	138	73	73	73	73	138	166	166	138	138	110	110
65	65	65	65	118	138	51	51	118	118	118	118	51	51	65	65	118	138	138	118	118	93	93
50	50	50	50	80	90	40	40	80	80	80	80	40	40	50	50	80	90	90	80	80	65	65
51	51	51	51	83	93	42	42	83	83	83	83	42	42	51	51	83	93	93	83	83	65	65
41	41	41	41	59	69	34	34	59	59	59	59	34	34	41	41	59	69	69	59	59	46	46
51	51	51	51	83	93	42	42	83	83	83	83	42	42	51	51	83	93	93	83	83	65	65
41	41	41	41	59	69	34	34	59	59	59	59	34	34	41	41	59	69	69	59	59	46	46
37	37	37	37	51	55	30	30	51	51	51	51	30	30	37	37	51	55	55	51	51	42	42
40	40	40	40	40	40	30	30	40	40	40	40	30	30	40	40	40	40	40	40	40	40	40
35	35	35	35	35	35	25	25	35	35	35	35	25	25	35	35	35	35	35	35	35	35	35
32	32	32	32	32	32	24	24	32	32	32	32	24	24	32	32	32	32	32	32	32	32	32
28	28	28	28	28	28	23	23	28	28	28	28	23	23	28	28	28	28	28	28	28	28	28
28	28	28	28	28	28	22	22	28	28	28	28	22	22	28	28	28	28	28	28	28	28	28
51	51	51	51	83	93	42	42	83	83	83	83	42	42	51	51	83	93	93	83	83	65	65
60	60	60	60	101	115	101	101	101	101	101	101	46	46	60	60	101	115	115	101	151	78	78
69	69	46	46	101	115	101	101	101	101	101	101	46	46	60	60	101	115	115	101	101	78	78
41	41	32	32	64	70	64	64	64	64	64	64	32	32	41	41	64	70	70	64	64	55	55
60	60	60	60	101	115	101	101	101	101	101	101	46	46	60	60	101	115	115	101	101	78	78
51	51	41	41	83	92	83	83	83	83	83	83	41	41	51	51	83	92	92	83	83	64	64
60	60	46	46	101	115	46	46	101	101	101	101	46	46	60	60	101	115	115	101	101	78	78
55	55	41	41	83	92	41	41	83	83	83	83	41	41	55	55	83	Sp'l rate.	55	83	83	70	70
41	41	32	32	64	70	32	32	64	64	64	64	32	32	41	41	64	.do .	41	64	64	55	55
28	28	28	28	37	37	28	28	37	37	37	37	28	28	28	28	37	.do .	28	37	37	28	28
30	30	30	30	40	40	30	30	40	40	40	40	30	30	30	30	40	.do .	30	40	40	30	30

TABLE 28.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE, VIA SHORTEST ROUTE.—From New York, 757 miles.

[NOTE.—Where the rates shown are not specifically described as applying on

Date.	Commodities (rates in cents per 100 pounds).																	
	Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar	
										Castile and fancy.		Common.						
				Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	
1873—Aug. 16.....	37	37	37	37	37	37	37	28	28	37	37	28	28	28	28	37	25	
Sept. 17.....	70	70	70	70	70	70	70	32	32	64	64	41	41	55	55	70		
1874—Jan. 1.....	92	92	92	92	92	92	92	41	41	83	83	55	55	70	70	92		
Aug. 3.....	70	70	70	70	70	70	70	32	32	64	64	41	41	55	55	70		
1875—Jan. 20.....	92	92	92	92	92	92	92	41	41	83	83	55	55	70	70	92		
Feb. 23.....	92	92	92	92	92	92	92	41	28	83	83	55	55	70	70	92		
Mar. 17.....	70	70	70	70	70	70	70	28	28	64	64	41	41	55	55	70		
Apr. 6.....	55	55	55	55	55	55	55	28	28	51	51	37	37	46	46	55		
Apr. 23.....	40	40	40	40	40	40	40	25	25	40	40	35	35	35	35	40		
May 18.....	40	40	40	40	40	40	40	25	25	40	40	35	35	35	35	40		
May 29.....	28	28	28	28	28	28	28	19	19	28	28	23	23	25	25	28		
Aug. 12.....	46	46	46	46	46	46	46	19	19	37	37	23	23	28	28	46		
Nov. 15.....	70	70	70	70	70	70	70	32	32	64	64	41	41	55	55	70		
Dec. 22.....	30	30	30	30	30	30	30	15	15	25	25	20	20	20	20	30		
1876—Jan. 10.....	70	70	70	70	70	70	70	32	32	64	64	41	41	55	55	70		
June 2.....	70	70	70	70	70	70	70	20	20	64	64	25	25	55	55	70		
June 12.....	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25		
July 28.....	15	15	15	15	15	15	15	10	10	15	15	10	10	15	15	15		
Aug. 7.....	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25		
Dec. 18.....	46	46	46	46	46	46	46	23	23	41	41	28	28	37	37	46		
1877—Mar. 12.....	70	70	70	70	70	70	70	32	32	64	64	41	41	55	55	70		
Oct. 8.....	70	70	70	70	70	70	37	37	37	64	64	37	37	37	37	70		
Oct. 22.....	92	92	92	92	92	92	41	41	41	83	83	41	41	41	41	92		
Dec. 10.....	92	92	92	92	92	92	41	41	41	73	73	41	41	41	41	92		
1878—Feb. 15.....	70	70	70	70	70	70	37	37	37	55	55	37	37	37	37	70		
1881—Aug. 6.....	41	41	41	41	41	41	18	18	18	29	29	18	18	18	18	41		
Nov. 14.....	55	55	55	55	55	55	26	26	26	46	46	26	26	26	26	55		
1882—Jan. 24.....	41	41	41	41	41	41	18	18	18	32	32	18	18	18	18	41		
June 22.....	70	70	70	70	70	70	32	32	32	55	55	32	32	32	32	70		
July 1.....	55	55	55	55	55	55	28	28	28	46	46	28	28	28	28	55		
Nov. 1.....	70	70	70	70	70	70	32	32	32	55	55	32	32	32	32	70		
1883—June 22.....	70	70	70	70	70	70	32	32	32	55	55	32	32	32	32	70		
1885—Jan. 26.....	46	46	46	46	46	46	23	23	23	37	37	23	23	23	23	46		
June 1.....	37	37	37	37	37	37	17	17	17	28	28	17	17	17	17	37		
Oct. 5.....	55	55	55	55	55	55	23	23	23	46	46	23	23	23	23	55		
Nov. 18.....	70	70	70	70	70	70	32	32	32	55	55	32	32	32	32	70		
1886—Mar. 10.....	65	65	65	65	65	65	30	30	30	52	52	30	30	30	30	65		
Aug. 26.....	65	44	65	65	65	65	30	30	30	52	52	30	30	30	30	65		
1887—Apr. 1.....	65	44	65	65	57	44	26	30	22	57	57	30	26	30	22	65		
1888—Jan. 9.....	65	44	65	65	57	44	29	33	24	57	57	33	29	33	24	65		
Mar. 5.....	65	44	65	65	57	44	26	30	22	57	57	30	26	30	22	65		
Nov. 12.....	44	30	44	44	35	30	22	26	17	35	35	26	22	26	17	44		
Dec. 17.....	65	44	65	65	57	44	26	30	22	57	57	30	26	30	22	65		
1891—Apr. 9.....	65	44	65	65	57	26	22	30	22	57	57	30	22	30	22	65		
1892—Mar. 6.....	65	44	65	65	57	26	22	30	22	30	22	30	22	30	22	65		
May 2.....	65	44	65	65	57	26	22	30	22	30	22	30	22	30	22	65		
June 6.....	65	44	65	65	57	26	22	30	22	30	22	30	22	30	22	65		

NEW YORK, N. Y., TO CINCINNATI, OHIO—Continued.

Boston, 907 miles; Philadelphia, 667 miles; Baltimore, 593 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																						
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
28	28	28	28	37	37	28	28	37	37	37	37	28	28	28	28	37	Sp'l rate.	28	37	37	28	28
41	41	32	32	64	70	32	32	64	64	64	64	32	32	41	41	64	.do.	41	64	64	55	55
55	55	41	41	83	92	41	41	83	83	83	83	41	41	55	55	83	.do.	55	83	83	70	70
41	41	32	32	64	70	32	32	64	64	64	64	32	32	41	41	64	.do.	41	64	64	55	55
55	55	41	41	83	92	41	41	83	83	83	83	41	41	55	55	83	.do.	55	83	83	70	70
55	55	41	41	83	92	41	41	83	83	83	83	41	41	55	55	83	.do.	55	83	83	70	70
28	28	32	32	64	70	32	32	64	64	64	64	32	32	41	41	64	.do.	41	64	64	55	55
37	37	28	28	51	55	28	28	51	51	51	51	28	28	37	37	51	.do.	37	51	51	46	46
35	35	25	25	40	40	25	25	40	40	40	40	25	25	35	35	40	.do.	35	40	40	35	35
35	35	30	30	40	40	30	30	40	40	40	40	30	30	35	35	40	.do.	35	40	40	35	35
23	23	19	19	28	28	19	19	28	28	28	28	19	19	23	23	28	.do.	23	28	28	25	25
23	23	19	19	37	46	19	19	37	37	37	37	19	19	23	23	37	.do.	23	37	37	28	28
41	41	32	32	64	70	32	32	64	64	64	64	32	32	41	41	64	.do.	41	64	64	55	55
20	20	15	15	25	30	15	15	25	25	25	25	15	15	20	20	25	.do.	20	25	25	20	20
41	41	32	32	64	70	32	32	64	64	64	64	32	32	41	41	64	.do.	41	64	64	55	55
25	25	20	20	64	70	20	20	64	64	64	64	20	20	25	25	64	.do.	25	64	64	55	55
16	16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	25	.do.	16	25	25	25	25
10	10	10	10	15	15	10	10	15	15	15	15	10	10	10	10	15	.do.	10	15	15	15	15
16	16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	25	.do.	16	25	25	25	25
28	28	23	23	41	46	23	23	41	41	41	41	23	23	28	28	41	.do.	28	41	41	37	37
41	41	32	32	64	70	32	32	64	64	64	64	32	32	41	41	64	.do.	41	64	64	55	55
37	37	37	37	64	70	37	37	37	37	64	64	37	37	37	37	64	.do.	37	64	37	37	37
41	41	41	41	83	92	41	41	41	41	83	83	41	41	41	41	83	.do.	41	83	41	41	41
41	41	41	41	73	92	41	41	41	41	73	73	41	41	41	41	73	.do.	41	73	41	41	41
37	37	37	37	55	70	37	37	37	37	55	55	37	37	37	37	55	.do.	37	55	37	37	37
18	18	18	18	29	41	18	18	18	18	29	29	18	18	18	18	29	.do.	18	29	18	18	18
26	26	26	26	46	55	26	26	26	26	46	46	26	26	26	26	46	.do.	26	46	26	26	26
18	18	18	18	32	41	18	18	18	18	32	32	18	18	18	18	32	.do.	18	32	18	18	18
23	23	32	32	55	70	32	32	32	32	55	55	32	32	32	32	55	.do.	32	55	32	32	32
23	23	28	28	46	55	28	28	28	28	46	46	28	28	28	28	46	.do.	28	46	28	28	28
32	32	32	32	55	70	32	32	32	32	55	55	32	32	32	32	55	.do.	32	55	32	32	32
23	23	32	32	55	70	32	32	32	32	55	55	32	32	32	32	55	.do.	32	55	32	32	32
17	17	23	23	37	46	23	23	23	23	37	37	23	23	23	23	37	.do.	23	37	23	23	23
14	14	17	17	28	37	17	17	17	17	28	28	17	17	17	17	28	.do.	17	28	17	17	17
18	18	23	23	46	55	23	23	23	23	46	46	23	23	23	23	46	.do.	23	46	23	23	23
23	23	32	32	55	70	32	32	32	32	55	55	32	32	32	32	55	.do.	32	55	32	32	32
22	22	30	30	52	65	30	30	30	30	52	52	30	30	30	26	52	.do.	30	52	30	30	30
22	22	30	30	53	65	30	30	30	30	52	52	30	30	30	26	52	.do.	30	52	30	30	30
30	26	30	30	57	65	30	26	44	30	44	30	30	22	30	26	57	44	26	30	26	44	26
23	29	33	24	57	65	33	29	44	33	44	33	33	24	33	29	57	44	29	33	29	44	29
30	26	30	22	57	65	30	26	44	30	44	30	30	22	30	26	57	44	26	30	26	44	26
26	22	26	17	35	44	26	22	30	26	30	26	26	17	26	22	35	30	22	26	22	30	22
30	26	30	22	57	65	30	26	44	30	44	30	30	22	30	26	57	44	26	30	26	44	26
30	26	30	22	57	65	30	26	44	30	44	30	30	22	26	22	57	44	26	30	26	44	26
30	26	30	22	57	65	30	26	44	30	44	30	30	22	26	22	57	44	26	30	26	44	26
30	26	30	22	57	65	30	26	44	30	44	30	30	22	26	22	57	44	26	30	26	44	26
30	26	30	22	57	65	30	26	44	30	44	30	30	22	26	22	57	44	26	30	26	44	26

TABLE 29.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 825 miles;

[NOTE.—Where the rates shown are not specifically described as applying on les

Date.	Commodities (rates in cents per 100 pounds).																	
	Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar	
										Castile and fancy.		Common.						
				Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.
1867—Jan. 1	183	183	183	183	183	183	183	156	156	156	156	124	124	156	156	183	79	
Nov. 5	199	199	199	199	199	199	199	166	166	166	166	135	135	166	166	199	83	
1868—Feb. 4	199	199	199	199	199	199	199	Special		166	166	83	83	135	135	199		
June 4	183	183	183	183	183	183	183	..do....		156	156	70	70	124	124	183	..do..	
Aug. 10	146	146	146	146	146	146	146	..do....		125	125	79	79	117	117	146	..do..	
Sept. 7	183	183	183	183	183	183	183	..do....		156	156	79	79	124	124	183	..do..	
Oct. 1	65	65	65	65	65	65	65	..do....		58	58	48	48	53	53	65	..do..	
Dec. 7	199	199	199	199	199	199	199	..do....		166	166	83	83	135	135	199	..do..	
1869—Feb. 1	183	183	183	183	183	183	183	..do....		156	156	79	79	124	124	183	..do..	
Feb. 17	45	45	45	45	45	45	45	..do....		45	45	45	45	45	45	45	..do	
Mar. 15	156	156	156	156	156	156	156	..do....		156	156	79	79	124	124	156	..do..	
April 12	156	156	156	156	156	156	156	..do....		156	156	79	79	124	124	156	..do..	
July 1	183	183	183	183	183	183	183	..do....		156	156	79	79	124	124	183	..do..	
Aug. 2	45	45	45	45	45	45	45	..do....		45	45	45	45	45	45	45	..do..	
Aug. 11	30	30	30	30	30	30	30	..do....		30	30	30	30	30	30	30	..do	
Aug. 23	38	38	38	38	38	38	38	..do....		38	38	38	38	38	38	38	..do..	
Aug. 30	42	42	42	42	42	42	42	..do....		42	42	42	42	42	42	42	..do..	
Sept. 22	37	37	37	37	37	37	37	..do....		37	37	37	37	37	37	37	..do	
Oct. 4	50	50	50	50	50	50	50	..do....		50	50	50	50	50	50	50	..do	
Oct. 9	73	73	73	73	73	73	73	..do....		73	73	50	50	73	73	73	..do	
Oct. 13	122	122	122	122	122	122	122	..do....		98	98	64	64	74	74	122	..do	
Nov. 1	137	137	137	137	137	137	137	..do....		123	123	79	79	98	98	137	..do	
Nov. 29	148	148	148	148	148	148	148	..do....		127	127	79	79	98	98	148	..do	
1870—April 14	148	148	148	148	148	148	148	..do....		127	127	79	79	98	98	148		
May 7	148	148	148	148	148	148	148	..do....		127	127	79	79	98	98	148		
June 18	104	104	104	104	104	104	104	..do....		83	83	52	53	67	67	104		
July 13	78	78	78	78	78	78	78	..do....		67	67	47	47	57	57	78		
July 18	74	74	74	74	74	74	74	..do....		67	67	47	47	57	57	74		
July 21	70	70	70	70	70	70	70	..do....		65	65	47	47	57	57	70		
July 25	63	63	63	63	63	63	63	..do....		56	56	42	42	52	52	63		
July 28	47	47	47	47	47	47	47	..do....		47	47	42	42	47	47	47		
Aug. 12	47	47	47	47	47	47	47	..do....		47	47	47	47	47	47	47		
1870—Aug. 22	92	92	92	92	92	92	92	..do....		83	83	53	53	67	67	92		
Sept. 8	122	122	122	122	122	122	122	..do....		108	108	64	64	83	83	122	..do	
Nov. 28	151	151	151	151	151	151	151	..do....		122	122	61	61	96	96	151	..do	
Dec. 26	171	171	171	171	171	171	171	56	56	142	142	75	75	113	113	171	56	
1871—Feb. 20	142	142	142	142	142	142	142	52	52	124	122	67	67	96	96	142		
Mar. 7	92	92	92	92	92	92	92	42	42	83	83	53	53	67	67	92		
Mar. 13	96	96	96	96	96	96	96	44	44	85	85	53	53	67	67	96		
May 18	71	71	71	71	71	71	71	35	35	61	61	42	42	48	48	71		
June 1	96	96	96	96	96	96	96	44	44	85	85	52	53	67	67	96		
July 8	71	71	71	71	71	71	71	35	35	61	61	42	42	48	48	71		
July 26	57	57	57	57	57	57	57	30	30	52	53	38	38	42	42	57		
July 28	45	45	45	45	45	45	45	32	32	45	45	42	42	45	45	45		
Aug. 16	38	38	38	38	38	38	38	27	27	38	38	38	38	38	38	38		
Aug. 22	33	33	33	33	33	33	33	25	25	33	33	33	33	33	33	33		
Sept. 1	29	29	29	29	29	29	29	24	24	29	29	29	29	29	29	29		
Nov. 27	96	96	96	96	96	96	96	44	44	85	85	53	53	67	67	96		
Dec. 15	118	118	118	118	118	118	118	47	47	104	104	63	63	80	80	118		
1872—April 27	118	118	118	118	118	118	118	47	47	104	104	63	63	80	80	118		
Aug. 1	71	71	71	71	71	71	71	33	33	66	66	43	43	57	57	71		
Sept. 1	118	118	118	118	118	118	118	47	47	104	104	63	63	80	80	118		
Sept. 2	95	95	95	95	95	95	95	43	43	85	85	53	53	80	80	95		
Oct. 14	118	118	118	118	118	118	118	47	47	104	104	63	63	80	80	118		
1873—April 14	95	95	95	95	95	95	95	43	43	85	85	57	57	71	71	95		
June 11	71	71	71	71	71	71	71	33	33	66	66	43	43	57	57	71		
Aug. 11	38	38	38	38	38	38	38	28	28	38	38	38	38	38	38	38		
Aug. 12	40	40	40	40	40	40	40	30	30	40	40	30	30	40	40	40		
Aug. 21	38	38	38	38	38	38	38	28	28	38	38	38	38	38	38	38		
Sept. 17	71	71	71	71	71	71	71	33	33	66	66	43	43	57	57	71		
1874—Jan. 1	95	95	95	95	95	95	95	43	43	85	85	57	57	71	71	95		
Aug. 3	71	71	71	71	71	71	71	33	33	66	66	43	43	57	57	71		
1875—Jan. 20	95	95	95	95	95	95	95	43	43	85	85	57	57	71	71	95		
Feb. 23	95	95	95	95	95	95	95	43	43	85	85	57	57	71	71	95		

NEW YORK, N. Y., TO INDIANAPOLIS, IND.

Boston, 946 miles; Philadelphia, 735 miles; Baltimore, 703 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

(Commodities (rates in cents per 100 pounds.)																						
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather		Lead.		Nails.		Hardware.	Agricultural implement.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
79	79	79	79	156	183	156	156	156	156	156	156	79	79	79	79	156	183	183	156	156	124	124
83	83	83	83	166	199	166	166	166	166	166	166	83	83	83	83	166	199	199	166	166	135	135
Special		83	83	166	199	166	166	166	166	166	166	83	83	83	83	166	199	199	166	166	135	135
do....		79	79	156	183	156	156	156	156	156	156	79	79	79	79	156	183	183	156	156	124	124
do....		79	79	125	146	125	125	125	125	125	125	79	79	79	79	125	146	146	125	125	117	117
do....		79	79	156	183	156	156	156	156	156	156	79	79	79	79	156	183	183	156	156	124	124
do....		48	48	58	65	58	58	58	58	58	58	48	48	48	48	58	65	65	58	58	53	53
do....		83	83	166	199	166	166	166	166	166	166	83	83	83	83	166	199	199	166	166	135	135
do....		79	79	156	183	156	156	156	156	156	156	79	79	79	79	156	183	183	156	156	124	124
do....		45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
do....		79	79	156	156	156	156	156	156	156	156	79	79	79	79	156	156	156	156	156	124	124
do....		79	79	156	156	Special		156	156	156	156	79	79	79	79	156	156	156	156	156	124	124
do....		79	79	156	183	do....		156	156	156	156	79	79	79	79	156	183	156	156	156	124	124
do....		45	45	45	45	do....		45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
do....		30	30	30	30	do....		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
do....		38	38	38	38	do....		38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
do....		42	42	42	42	do....		42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
do....		37	37	37	37	do....		37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
do....		50	50	50	50	do....		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
do....		50	50	73	73	do....		73	73	73	73	50	50	50	50	73	73	73	73	73	73	73
do....		64	64	98	122	do....		98	98	98	98	64	64	64	64	98	122	122	98	98	74	74
do....		79	79	123	137	do....		123	123	123	123	79	79	79	79	123	137	137	123	123	98	98
do....		79	79	127	148	do....		127	127	127	127	79	70	79	79	127	148	148	127	127	98	98
do....		79	79	127	148	do....		127	127	127	127	79	79	79	79	127	148	148	127	127	98	98
do....		Special		127	148	do....		127	127	127	127	79	79	79	79	127	148	148	127	127	98	98
do....		do....		83	104	do....		83	83	83	83	53	53	53	53	83	104	104	83	83	67	67
do....		do....		67	78	do....		67	67	67	67	47	47	47	47	67	78	78	67	67	57	57
do....		do....		67	74	do....		67	67	67	67	47	47	47	47	67	74	74	67	67	57	57
do....		do....		65	70	do....		65	65	65	65	47	47	47	47	65	70	70	65	65	57	57
do....		do....		56	63	do....		56	56	56	56	42	42	42	42	56	63	63	56	56	52	52
do....		do....		47	47	do....		47	47	47	47	42	42	42	42	47	47	47	47	47	47	47
do....		do....		47	47	do....		47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
do....		do....		83	92	do....		83	83	83	83	53	53	53	53	83	92	92	83	83	67	67
do....		do....		108	122	do....		108	108	108	108	64	64	64	64	108	122	122	108	108	83	83
do....		do....		122	151	do....		122	122	122	122	61	61	61	61	122	151	151	122	122	96	96
75	75	75	75	142	171	142	142	142	142	142	142	75	75	75	75	142	171	171	142	142	113	113
67	67	67	67	123	142	52	52	122	122	122	122	52	52	67	67	122	142	142	122	122	96	96
53	53	53	53	83	92	42	42	83	83	83	83	42	42	53	53	83	92	92	83	83	67	67
52	52	52	52	85	96	44	44	85	85	85	85	44	44	52	52	85	96	96	85	85	67	67
42	42	42	42	61	71	35	35	61	61	61	61	35	35	42	42	61	71	71	61	61	48	48
52	52	52	52	85	96	44	44	85	85	85	85	44	44	52	52	85	96	96	85	85	67	67
42	42	42	42	61	71	35	35	61	61	61	61	35	35	42	42	61	71	71	61	61	48	48
38	38	38	38	52	57	30	30	52	52	52	52	30	30	38	38	52	57	57	52	52	43	43
42	42	42	42	45	45	32	32	45	45	45	45	32	32	42	42	45	45	45	45	45	45	45
38	38	38	38	38	38	27	27	38	38	38	38	27	27	38	38	38	38	38	38	38	38	38
33	33	33	33	33	33	25	25	33	33	33	33	25	25	33	33	33	33	33	33	33	33	33
29	29	29	29	29	29	24	24	29	29	29	29	24	24	29	29	29	29	29	29	29	29	29
52	52	52	52	85	96	44	44	85	85	85	85	44	44	52	52	85	96	96	85	85	67	67
62	62	62	62	104	118	104	104	104	104	104	104	47	47	62	62	104	118	118	104	104	80	80
62	62	47	47	104	118	104	104	104	104	104	104	47	47	62	62	104	118	118	104	104	80	80
43	43	33	33	66	71	66	66	66	66	66	66	33	33	43	43	66	71	71	66	66	57	57
62	62	47	47	104	118	104	104	104	104	104	104	47	47	62	62	104	118	118	104	104	80	80
52	52	43	43	85	95	85	85	85	85	85	85	43	43	52	52	85	95	95	85	85	66	66
62	62	47	47	104	118	47	47	104	104	104	104	47	47	62	62	104	118	118	104	104	80	80
57	57	43	43	85	95	43	43	85	85	85	85	43	43	57	57	85	Sp'l	57	85	85	71	71
43	43	33	33	66	71	33	33	66	66	66	66	33	33	43	43	66	.do.	43	66	66	57	57
28	28	28	28	38	38	28	28	38	38	38	38	28	28	28	28	38	.do.	28	38	38	28	28
30	30	30	30	40	40	30	30	40	40	40	40	30	30	30	30	30	.do.	30	40	40	30	30
28	28	28	28	38	38	28	28	38	38	38	38	28	28	28	28	38	.do.	28	38	38	28	28
43	43	33	33	66	71	33	33	66	66	66	66	33	33	43	43	66	.do.	43	66	66	57	57
57	57	43	43	85	95	43	43	85	85	85	85	43	43	57	57	85	.do.	57	85	85	71	71
43	43	33	33	66	71	33	33	66	66	66	66	33	33	43	43	66	.do.	43	66	66	57	57
57	57	43	43	85	95	43	43	85	85	85	85	43	43	57	57	85	.do.	57	85	85	71	71
57	57	43	43	85	95	43	43	85	85	85	85	43	43	57	57	85	.do.	57	85	85	71	71

TABLE 29.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 825 miles:

[NOTE.—Where the rates showed are not specifically described as applying on less

Date.	Commodities (rates in cents per 100 pounds.)																	
				Furniture.		Stoves.		Coffee.		Soap.				Starch.			Sugar.	
										Castile and fancy.		Common.						
	Dry goods	Cotton piece goods.	Boots and shoes.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloud.	Tea.	Less than carloads.	Carloads.
1875—Mar. 17	71	71	71	71	71	71	71	28	28	66	66	43	43	57	57	71	26	5
Apr. 6	57	57	57	57	57	57	57	28	28	52	52	38	38	47	47	57	26	5
May 18	51	51	51	51	51	51	51	25	25	47	47	34	34	42	42	51	25	5
May 29	28	28	28	28	28	28	28	19	19	28	28	24	24	26	28	28	19	4
Aug. 12	47	47	47	47	47	47	47	19	19	38	38	24	24	28	28	47	19	5
Nov. 15	71	71	71	71	71	71	71	33	33	66	66	43	43	57	57	71	23	5
Dec. 22	30	30	30	30	30	30	30	15	15	25	25	20	20	20	20	30	15	5
1876—Jan. 10	71	71	71	71	71	71	71	33	33	66	66	43	43	57	57	71	23	5
June 2	71	71	71	71	71	71	71	20	20	66	66	25	25	57	57	71	20	5
June 12	25	25	15	25	25	25	25	16	16	25	25	16	16	25	25	25	16	5
July 28	15	15	15	15	15	15	15	10	10	15	15	10	10	15	15	15	10	5
Aug. 7	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25	16	5
Dec. 18	47	47	47	47	47	47	47	24	24	43	43	28	28	38	38	47	24	5
1877—Mar. 12	71	71	71	71	71	71	71	33	33	66	66	43	43	57	57	71	23	5
Oct. 8	71	71	71	71	71	71	38	38	38	66	66	38	38	38	38	71	26	5
Oct. 23	95	95	95	95	95	95	43	43	43	85	85	43	43	43	43	95	43	5
Dec. 10	95	95	95	95	95	95	43	43	43	76	76	43	43	43	43	95	43	5
1878—Feb. 15	71	71	71	71	71	71	38	38	38	57	57	38	38	38	38	71	28	5
1881—Aug. 6	43	43	43	43	43	43	18	18	18	30	30	18	18	18	18	43	15	5
Nov. 14	57	57	57	57	57	57	27	27	27	47	47	27	27	27	27	57	27	5
1882—Jan. 24	43	43	43	43	43	43	18	18	18	32	32	18	18	18	18	43	15	5
July 1	57	57	57	57	57	57	28	28	28	47	47	28	28	28	28	57	24	5
Nov. 1	71	71	71	71	71	71	33	33	33	57	57	33	33	33	33	71	23	5
1883—June 22	71	71	71	71	71	71	33	33	33	57	57	33	33	33	33	71	21	5
1885—Jan. 26	47	47	47	47	47	47	24	24	24	38	38	24	24	24	24	47	17	5
June 1	38	38	38	38	38	38	17	17	17	28	28	17	17	17	17	38	14	5
Oct. 5	57	57	57	57	57	57	24	24	24	47	47	24	24	24	24	57	19	5
Nov. 18	71	71	71	71	71	71	33	33	33	57	57	33	33	33	33	71	24	5
1886—Mar. 10	70	70	70	70	70	70	33	33	33	56	56	33	33	33	33	70	23	5
Aug. 26	70	47	70	70	70	70	33	33	33	56	56	33	33	33	33	70	23	5
1887—Apr. 1	70	47	70	70	60	47	28	33	23	60	60	33	23	33	23	70	23	5
1888—Jan. 9	70	47	70	70	60	47	31	36	26	60	60	36	31	36	31	70	26	5
Mar. 5	70	47	70	70	60	47	28	33	23	60	60	33	28	33	23	70	23	5
Nov. 12	47	33	47	47	37	33	23	28	19	37	37	28	23	28	19	47	19	5
Dec. 17	70	47	70	70	60	47	28	33	23	60	60	33	28	33	23	70	23	5
1891—Apr. 9	70	47	70	70	60	28	23	33	23	60	60	33	23	33	23	70	23	5
1892—Mar. 16	70	47	70	70	60	28	23	33	23	33	23	33	23	33	23	70	23	5
May 2	70	47	70	70	60	28	23	33	23	33	23	33	23	33	23	70	23	5
June 6	70	47	70	70	60	28	23	33	23	33	23	33	23	33	23	70	23	5

NEW YORK, N. Y., TO INDIANAPOLIS, IND.—Continued.

Boston, 946 miles; Philadelphia, 735 miles; Baltimore, 708 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																							
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather		Lead.		Nails.		Hardware.	Agricultural implements		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carload.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
28	28	33	33	66	71	33	33	66	66	66	66	33	33	43	43	66	Sp'l	43	66	66	57	57
38	38	28	28	52	57	28	28	52	52	52	52	28	28	38	38	52	.do.	38	52	52	47	47
34	34	27	27	47	51	27	27	47	47	47	27	27	27	34	34	47	.do.	34	47	47	42	42
24	24	19	19	28	28	19	19	28	28	28	28	19	19	24	24	28	.do.	24	28	28	26	26
24	24	19	19	38	47	19	19	38	38	38	38	19	19	24	24	38	.do.	24	38	38	28	28
43	43	33	33	66	71	33	33	66	66	66	66	33	33	43	43	66	.do.	43	66	66	57	57
20	20	15	15	25	30	15	15	25	25	25	25	15	15	20	20	25	.do.	20	25	25	20	20
43	43	33	33	66	71	33	33	66	66	66	66	33	33	43	43	66	.do.	43	66	66	57	57
25	25	20	20	66	71	20	20	66	66	66	66	20	20	25	25	66	.do.	25	66	66	57	57
16	16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	25	.do.	16	25	25	25	25
10	10	10	10	15	15	10	10	15	15	15	15	10	10	10	10	15	.do.	10	15	15	15	25
16	16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	25	.do.	16	25	25	25	25
28	28	24	24	43	47	24	24	43	43	43	43	24	24	28	28	43	.do.	28	43	43	38	38
43	43	33	33	66	71	33	33	66	66	66	66	33	33	43	43	66	.do.	43	66	66	57	57
38	38	38	38	66	71	38	38	38	38	66	66	38	38	38	38	66	.do.	38	66	38	58	38
43	43	43	43	85	95	43	43	43	43	85	85	43	43	43	43	85	.do.	43	85	43	43	43
43	43	43	43	76	95	43	43	43	43	76	76	43	43	43	43	76	.do.	43	76	43	43	43
38	38	38	38	57	71	38	38	38	38	57	57	38	38	38	38	57	.do.	38	57	38	38	38
18	18	18	18	30	43	18	18	18	18	30	30	18	18	18	18	30	.do.	18	30	18	18	18
27	27	27	27	47	57	27	27	27	27	47	47	27	27	27	27	47	.do.	27	47	27	27	27
18	18	18	18	32	43	18	18	18	18	32	32	18	18	18	18	32	.do.	18	32	18	18	18
28	28	28	28	47	57	28	28	28	28	47	47	28	28	28	28	47	.do.	28	47	28	28	28
33	33	33	33	57	71	33	33	33	33	57	57	33	33	33	33	57	.do.	33	57	33	33	33
24	24	33	33	57	71	33	33	33	33	57	57	33	33	33	33	57	.do.	33	57	33	33	33
17	17	24	24	38	47	24	24	24	24	38	38	24	24	24	24	38	.do.	24	38	24	24	24
14	14	17	17	28	38	17	17	17	17	28	28	17	17	17	17	28	.do.	17	28	17	17	17
19	19	24	24	47	57	24	24	24	24	47	47	24	24	24	24	47	.do.	24	47	24	24	24
24	24	33	33	57	71	33	33	33	33	57	57	33	33	33	33	57	.do.	33	57	33	33	33
23	23	33	33	56	70	33	33	33	33	56	56	33	33	33	33	56	.do.	33	56	33	33	33
23	23	33	33	56	70	33	33	33	33	56	56	33	33	33	33	56	.do.	33	56	33	33	33
33	28	33	33	60	70	33	28	47	33	47	33	33	23	33	28	60	47	28	33	28	47	28
36	31	36	26	60	70	36	31	47	36	47	36	36	31	36	31	60	47	31	36	31	47	31
33	28	33	23	60	70	33	28	47	33	47	33	33	23	33	28	60	47	28	33	28	47	28
28	23	28	19	37	47	28	23	33	28	33	28	28	19	28	23	37	33	23	28	23	33	23
33	23	33	23	60	70	33	28	47	33	47	33	33	23	33	28	60	47	28	33	28	47	28
33	28	33	23	60	70	33	28	47	33	47	33	33	23	28	23	60	47	28	33	28	47	28
33	28	33	23	60	70	33	28	47	33	47	33	33	23	28	23	60	47	28	33	28	47	28
33	28	33	23	60	70	33	28	47	33	47	33	33	23	28	23	60	47	28	33	28	47	28
33	28	33	23	60	70	33	28	47	33	47	33	33	23	28	23	60	47	28	33	28	47	28

TABLE 30.—RATES OF FREIGHT, ALL RAIL, PER

DISTANCE VIA SHORTEST ROUTE.—From New York, 637 mile

[NOTE.—Where the rates shown are not specifically described as applying on

Date.	Commodities (rates in cents per 100 pounds).																	
				Furniture.		Stoves.		Coffee.		Soaps.				Starch.				Sugar
										Castile and fancy.		Common.						
	Dry Goods.	Cotton piece goods.	Boots and shoes.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Tea.	Less than carloads.	
1867—Jan. 1	153	153	153	153	153	153	153	131	131	131	131	104	104	131	131	153		
Nov. 1	166	166	166	166	166	166	166	140	140	140	140	114	114	140	140	166		
1868—Feb. 4	166	166	166	166	166	166	166	Special rate.		140	140	70	70	114	114	166		
June 4	153	153	153	153	153	153	153	..do....		131	131	67	67	104	104	153		
Aug. 10	123	123	123	123	123	123	123	..do....		105	105	67	67	96	96	123		
Sep. 7	153	153	153	153	153	153	153	..do....		131	131	67	67	104	104	153		
Oct. 1	60	60	60	60	60	60	60	..do....		56	56	45	45	50	50	60		
Dec. 7	166	166	166	166	166	166	166	..do....		140	140	70	70	114	114	166		
1869—Feb. 1	153	153	153	153	153	153	153	..do....		131	131	67	67	104	104	153		
17	38	38	38	38	38	38	38	..do....		38	38	38	38	38	38	38		
Mar. 15	131	131	131	131	131	131	131	..do....		131	131	67	67	104	104	131		
May 12	131	131	131	131	131	131	131	..do....		131	131	67	67	104	104	131		
July 1	153	153	153	153	153	153	153	..do....		131	131	67	67	104	104	153		
Aug. 11	26	26	26	26	26	26	26	..do....		26	26	26	26	26	26	26		
23	32	32	32	32	32	32	32	..do....		32	32	32	32	32	32	32		
30	35	35	35	35	35	35	35	..do....		35	35	35	35	35	35	35		
Sept. 22	32	32	32	32	32	32	32	..do....		32	32	32	32	32	32	32		
24	30	30	30	30	30	30	30	..do....		30	30	30	30	30	30	30		
Oct. 4	42	42	42	42	42	42	42	..do....		42	42	42	42	42	42	42		
9	61	61	61	61	61	61	61	..do....		61	61	41	41	61	61	61		
13	103	103	103	103	103	103	103	..do....		82	82	52	52	62	62	103		
Nov. 1	115	115	115	115	115	115	115	..do....		103	103	67	67	82	82	115		
29	124	124	124	124	124	124	124	..do....		107	107	67	67	82	82	124		
1870—Apr. 14	124	124	124	124	124	124	124	..do....		107	107	67	67	82	82	124		
May 7	124	124	124	124	124	124	124	..do....		107	107	67	67	82	82	124		
June 18	87	87	87	87	87	87	87	..do....		70	70	44	44	56	56	87		
July 13	65	65	65	65	65	65	65	..do....		56	56	39	39	48	48	65		
21	60	60	60	60	60	60	60	..do....		55	55	39	39	48	48	60		
25	53	53	53	53	53	53	53	..do....		46	46	35	35	43	43	53		
28	40	40	40	40	40	40	40	..do....		40	40	35	35	40	40	40		
Aug. 12	40	40	40	40	40	40	40	..do....		40	40	35	35	40	40	40		
22	77	....	77	77	77	77	77	..do....		70	70	44	44	56	56	77		
Sept. 8	103	103	103	103	103	103	103	..do....		91	91	54	54	70	70	103		
Nov. 28	127	127	127	127	127	127	127	..do....		103	103	51	51	81	81	127		
Dec. 26	144	144	144	144	144	144	144	48	48	120	120	63	63	95	95	144		
1871—Feb. 20	120	120	120	120	120	120	120	44	44	103	103	56	56	81	81	120		
Mar. 7	77	77	77	77	77	77	77	35	35	70	70	44	44	56	56	77		
13	81	81	81	81	81	81	81	37	37	72	72	44	44	56	56	81		
May 18	60	60	60	60	60	60	60	29	29	51	51	35	35	40	40	60		
June 1	81	81	81	81	81	81	81	37	37	72	72	44	44	56	56	81		
July 8	60	60	60	60	60	60	60	29	29	51	51	51	51	40	40	60		
26	48	48	48	48	48	48	48	26	26	44	44	32	32	37	37	48		
28	40	40	40	40	40	40	40	29	29	40	40	35	35	40	40	40		
Aug. 16	32	32	32	32	32	32	32	23	23	32	32	32	32	32	32	32		
22	28	28	28	28	28	28	28	21	21	28	28	28	28	28	28	28		
Sept. 1	23	23	28	23	23	23	23	20	20	23	23	23	23	23	23	23		
Nov. 27	81	81	81	81	81	81	81	37	37	72	72	44	44	56	56	81		
Dec. 15	100	100	100	100	100	100	100	40	40	88	88	52	52	68	68	100		
1872—Apr. 27	100	100	100	100	100	100	100	40	40	88	88	52	52	68	68	100		
Aug. 1	60	60	60	60	60	60	60	28	28	56	56	36	36	48	48	60		
Sept. 1	100	100	100	100	100	100	100	40	40	88	88	52	52	68	68	100		
2	80	80	80	80	80	80	80	36	36	72	72	44	44	56	56	80		
Oct. 14	100	100	100	100	100	100	100	40	40	88	88	52	52	68	68	100		
1873—Apr. 14	80	80	80	80	80	80	80	36	36	72	72	48	48	60	60	80		
June 11	60	60	60	60	60	60	60	28	28	56	56	36	36	48	48	60		
Aug. 11	32	32	32	32	32	32	32	24	24	32	32	24	24	24	24	32		
12	40	40	40	40	40	40	40	30	30	40	40	30	30	30	30	40		
21	32	32	32	32	32	32	32	24	24	32	32	24	24	24	24	32		
Sept. 17	60	60	60	60	60	60	60	28	28	56	56	36	36	48	48	60		
1874—Jan. 1	80	80	80	80	80	80	80	36	36	72	72	48	48	60	60	80		
Aug. 3	60	60	60	60	60	60	60	28	28	56	56	36	36	48	48	60		

NEW YORK, N. Y., TO COLUMBUS, OHIO.

Boston, 801 miles; Philadelphia, 547 miles; Baltimore, 526 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																							
Molasses.		Rice.				Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.			Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.	Groceries.	Drugs.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Hardware.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
67	67	67	67	131	153	131	131	131	131	131	131	67	67	67	67	131	153	153	131	131	104	104
70	70	70	70	140	166	140	140	140	140	140	140	70	70	70	70	140	166	166	140	140	114	114
Special rate.		70	70	140	166	140	140	140	140	140	140	70	70	70	70	140	166	166	140	140	114	114
..do....		67	67	131	153	131	131	131	131	131	131	67	67	67	67	131	153	153	131	131	104	104
..do....		67	67	105	123	105	105	105	105	105	105	67	67	67	67	105	123	123	105	105	98	98
..do....		67	67	131	153	131	131	131	131	131	131	67	67	67	67	131	153	153	131	131	104	104
..do....		45	45	56	60	56	56	56	56	56	56	45	45	45	45	56	60	60	56	56	50	50
..do....		70	70	140	166	140	140	140	140	140	140	70	70	70	70	140	166	166	140	140	114	114
..do....		67	67	131	153	131	131	131	131	131	131	67	67	67	67	131	153	153	131	131	104	104
..do....		38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
..do....		67	67	131	131	131	131	131	131	131	131	67	67	67	67	131	131	131	131	131	104	104
..do....		67	67	131	131	Special rate.		131	131	131	131	67	67	67	67	131	131	131	131	131	104	104
..do....		67	67	131	153	..do....		136	131	131	131	67	67	67	67	131	153	153	131	131	104	104
..do....		26	26	26	26	..do....		26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
..do....		32	32	32	32	..do....		32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
..do....		35	35	35	35	..do....		35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
..do....		32	32	32	32	..do....		32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
..do....		30	30	30	30	..do....		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
..do....		42	42	42	42	..do....		42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
..do....		42	42	61	61	..do....		61	61	61	61	42	42	42	42	61	61	61	61	61	61	61
..do....		52	52	82	103	..do....		82	82	82	82	52	52	52	52	82	103	103	82	82	62	62
..do....		67	67	103	115	..do....		103	103	103	103	67	67	67	67	103	115	115	103	103	82	82
..do....		67	67	107	124	..do....		107	107	107	107	67	67	67	67	107	124	124	107	107	82	82
..do....		67	67	107	124	..do....		107	107	107	107	67	67	67	67	107	124	124	107	107	82	82
..do....		Special rate.		107	124	..do....		107	107	107	107	67	67	67	67	107	124	124	107	107	82	82
..do....		..do....		70	87	..do....		70	70	70	70	44	44	44	44	70	87	87	70	70	56	56
..do....		..do....		56	65	..do....		56	56	56	56	39	39	39	39	56	65	65	56	56	48	48
..do....		..do....		55	60	..do....		55	55	55	55	39	39	39	39	55	60	60	55	55	48	48
..do....		..do....		46	53	..do....		46	46	46	46	35	35	35	35	46	53	53	46	46	43	43
..do....		..do....		40	40	..do....		40	40	40	40	35	35	35	35	40	40	40	40	40	40	40
..do....		..do....		40	40	..do....		40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
..do....		..do....		70	77	..do....		70	70	70	70	44	44	44	44	70	77	77	70	70	56	56
..do....		..do....		91	103	..do....		91	91	91	91	54	54	54	54	91	103	103	91	91	70	70
..do....		..do....		103	127	..do....		103	103	103	103	51	51	51	51	103	127	127	103	103	81	81
63	63	63	63	120	144	120	120	120	120	120	120	63	63	63	63	120	144	144	120	120	95	95
56	56	56	56	103	120	103	103	103	103	103	103	44	44	56	56	103	120	120	103	103	81	81
44	44	44	44	70	77	70	70	70	70	70	70	35	35	44	44	70	77	77	70	70	56	56
44	44	44	44	72	81	72	72	72	72	72	72	37	37	44	44	72	81	81	72	72	56	56
35	35	35	35	51	60	29	29	51	51	51	51	29	29	35	35	51	60	60	51	51	40	40
44	44	44	44	72	81	37	37	72	72	72	72	37	37	44	44	72	81	81	72	72	56	56
51	51	51	51	51	60	29	29	51	51	51	29	29	29	51	51	51	60	60	51	51	40	40
32	32	32	32	44	48	26	26	44	44	44	44	26	26	32	32	44	48	48	44	44	37	37
35	35	35	35	40	40	29	29	40	40	40	40	29	29	35	35	40	40	40	40	40	40	40
32	32	32	32	32	32	23	23	32	32	32	32	23	23	32	32	32	32	32	32	32	32	32
28	28	28	28	28	28	21	21	28	28	28	28	21	21	28	28	28	28	28	28	28	28	28
23	23	23	23	23	23	20	20	23	23	23	23	20	20	23	23	23	23	23	23	23	23	23
44	44	44	44	72	81	37	37	72	72	72	72	37	37	44	44	72	81	81	72	72	56	56
52	52	52	52	88	100	88	88	88	88	88	88	40	40	52	52	88	100	100	88	88	68	68
52	52	40	40	88	100	88	88	88	88	88	88	40	40	52	52	88	100	100	88	88	68	68
36	36	28	28	56	60	56	56	56	56	56	56	28	28	36	36	56	60	60	56	56	48	48
52	52	40	40	88	100	88	88	88	88	88	88	40	40	52	52	88	100	100	88	88	68	68
44	44	36	36	72	80	72	72	72	72	72	72	36	36	44	44	72	80	80	72	72	56	56
52	52	40	40	88	100	40	40	88	88	88	88	40	40	52	52	88	100	100	88	88	68	68
48	48	36	36	72	80	36	36	72	72	72	72	36	36	48	48	72	Sp'l rate.	48	72	72	60	60
36	36	28	28	56	60	28	28	56	56	56	56	28	28	36	36	56	..do..	36	56	56	48	48
24	24	24	24	32	32	24	24	32	32	32	32	24	24	24	24	32	..do..	24	32	32	24	24
30	30	30	30	40	40	30	30	40	40	40	40	30	30	30	30	40	..do..	30	40	40	30	30
24	24	24	24	32	32	24	24	32	32	32	32	24	24	24	24	32	..do..	24	32	32	24	24
36	36	28	28	56	60	28	28	56	56	56	56	28	28	36	36	56	..do..	36	56	56	48	48
48	48	36	36	72	80	36	36	72	72	72	72	36	36	48	48	72	..do..	48	72	72	60	60
36	36	28	28	56	60	28	28	56	56	56	56	28	28	36	36	56	..do..	36	56	56	48	48

TABLE 30.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 637 miles:

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.	Commodities (rates in cents per 100 pounds.)																	
				Furniture.		Stoves.		Coffee.	Soaps.				Starch.			Sugar.		
									Castile and fancy.		Common.							
	Dry goods.	Cotton piece goods.	Boots and shoes.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Tea.	Less than carloads.	Carloads.
1875—Jan. 20.....	80	80	80	80	80	80	80	36	36	72	72	48	48	60	60	80	36	36
Feb. 23.....	80	80	80	80	80	80	80	24	24	72	72	48	48	60	60	80	24	24
Mar. 17.....	60	60	60	60	60	60	60	24	24	56	56	36	36	48	48	60	24	24
Apr. 6.....	48	48	48	48	48	48	48	24	24	44	44	32	32	40	40	48	24	24
May 18.....	43	43	43	43	43	43	43	22	22	40	40	29	29	36	36	43	22	22
29.....	27	27	27	27	27	27	27	18	18	27	27	20	20	25	25	27	18	18
Aug. 13.....	40	40	40	40	40	40	40	16	16	32	32	20	20	25	25	40	16	16
Nov. 15.....	60	60	60	60	60	60	60	28	28	56	56	36	36	48	48	60	28	28
Dec. 22.....	30	30	30	30	30	30	30	15	15	25	25	20	20	20	20	30	15	15
1876—Jan. 10.....	60	60	60	60	60	60	60	28	28	56	56	36	36	48	48	60	28	28
June 2.....	60	60	60	60	60	60	60	20	20	56	56	25	25	48	48	60	20	20
12.....	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25	16	16
July 28.....	15	15	15	15	15	15	15	10	10	15	15	15	15	15	15	15	10	10
Aug. 7.....	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25	16	16
Dec. 18.....	40	40	40	40	40	40	40	20	20	36	36	25	25	32	32	40	20	20
1877—Mar. 12.....	60	60	60	60	60	60	60	28	28	56	56	36	36	48	48	60	28	28
Oct. 8.....	60	60	60	60	60	60	60	32	32	56	56	32	32	32	32	60	32	32
22.....	80	80	80	80	80	80	80	36	36	72	72	36	36	36	36	80	36	36
Dec. 10.....	80	80	80	80	80	80	80	36	36	64	64	36	36	36	36	80	36	36
1878—Feb. 15.....	60	60	60	60	60	60	60	32	32	32	48	48	32	32	32	32	60	32
1881—Aug. 6.....	36	36	36	36	36	36	36	15	15	15	28	28	15	15	15	15	36	15
Nov. 14.....	48	48	48	48	48	48	48	22	22	22	40	40	22	22	22	22	48	22
1882—Jan. 24.....	39	39	39	39	39	39	39	18	18	18	32	32	18	18	18	18	39	18
July 1.....	48	48	48	48	48	48	48	24	24	24	40	40	24	24	24	24	48	24
Nov. 1.....	60	60	60	60	60	60	60	28	28	28	48	48	28	28	28	28	60	28
1883—June 22.....	60	60	60	60	60	60	60	28	28	28	48	48	28	28	28	28	60	28
1885—Jan. 26.....	40	40	40	40	40	40	40	20	20	20	32	32	20	20	20	20	40	14
June 1.....	32	32	32	32	32	32	32	14	14	14	24	24	14	14	14	14	32	12
Oct. 5.....	48	48	48	48	48	48	48	20	20	20	40	40	20	20	20	20	48	16
Nov. 18.....	60	60	60	60	60	60	60	28	28	28	48	48	28	28	28	28	60	20
1886—Mar. 10.....	58	58	58	58	58	58	58	27	27	27	46	46	27	27	27	27	58	19
Aug. 26.....	58	39	58	58	58	58	58	27	27	27	46	46	27	27	27	27	58	19
1887—Apr. 1.....	58	39	58	58	58	58	39	23	27	19	50	50	27	23	27	19	58	19
June 13.....	59	39	59	59	51	39	23	27	23	51	51	27	23	27	20	58	19	19
1888—Jan. 9.....	59	39	59	59	51	39	26	30	21	51	51	30	26	30	21	58	19	19
Mar. 5.....	59	39	59	59	51	39	23	27	20	51	51	27	23	27	20	58	19	19
Nov. 12.....	39	27	39	39	31	27	20	23	16	31	31	23	20	23	16	39	13	13
Dec. 17.....	59	39	59	59	51	39	23	27	20	51	51	27	23	27	20	58	19	19
1891—Apr. 9.....	59	39	59	59	51	23	20	27	20	27	20	27	20	27	20	58	19	19
1892—Mar. 16.....	59	39	59	59	51	23	20	27	20	27	20	27	20	27	20	58	19	19
May 2.....	59	39	59	59	51	23	20	27	20	27	20	27	20	27	20	58	19	19
June 6.....	59	39	59	59	51	23	20	27	20	27	20	27	20	27	20	58	19	19

NEW YORK, N. Y., TO COLUMBUS, OHIO—Continued.

Boston, 801 miles; Philadelphia, 547 miles; Baltimore, 526 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents 100 pounds.)																							
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather		Lead.		Nails.		Hardware.	Agricultural implements		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
48	48	36	36	72	80	36	36	72	72	72	72	36	36	48	48	72	Sp'l rate.	48	72	72	60	60
48	48	36	36	72	80	36	36	72	72	72	72	36	36	48	48	72	.do.	48	72	72	60	60
24	24	28	28	56	60	28	28	56	56	56	56	28	28	36	36	56	.do.	36	56	56	48	48
32	32	24	24	44	48	24	24	44	44	44	44	24	24	32	32	44	.do.	32	44	44	40	40
29	29	23	23	40	48	23	23	40	40	40	40	23	23	29	29	40	.do.	29	40	40	36	36
28	28	18	18	27	27	18	18	27	27	27	27	18	18	20	20	27	.do.	20	27	27	25	25
20	20	16	16	32	40	16	16	32	32	32	32	16	16	20	20	32	.do.	20	32	32	25	25
36	36	28	28	56	60	28	28	56	56	56	56	28	28	36	36	56	.do.	36	56	56	48	48
20	20	15	15	25	30	15	15	25	25	25	25	15	15	20	20	25	.do.	20	25	25	20	20
36	36	28	28	56	60	28	28	56	56	56	56	28	28	36	36	56	.do.	36	56	56	48	48
25	25	20	20	56	60	20	20	56	56	56	56	20	20	25	25	56	.do.	25	56	56	48	48
16	16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	25	.do.	16	25	25	25	25
10	10	10	10	15	15	10	10	15	15	15	15	10	10	10	10	15	.do.	10	15	15	15	15
16	16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	25	.do.	16	25	25	25	25
25	25	20	20	36	40	20	20	36	36	36	36	20	20	25	25	36	.do.	25	36	36	32	32
36	36	28	28	56	60	28	28	56	56	56	56	28	28	36	36	56	.do.	36	56	56	48	48
32	32	32	32	56	60	32	32	32	32	56	56	32	32	32	32	56	.do.	32	56	32	32	32
36	36	36	36	72	80	36	36	36	36	72	72	36	36	36	36	72	.do.	36	72	36	36	36
36	36	36	36	64	80	36	36	36	36	64	64	36	36	36	36	64	.do.	36	64	36	36	36
32	32	32	32	48	60	32	32	32	32	48	48	32	32	32	32	48	.do.	32	48	32	32	32
15	15	15	15	26	36	15	15	15	15	26	26	15	15	15	15	26	.do.	15	26	15	15	15
22	22	22	22	40	48	22	22	22	22	40	40	22	22	22	22	40	.do.	22	40	22	22	22
18	18	18	18	32	39	18	18	18	18	32	32	18	18	18	18	32	.do.	18	32	18	18	18
20	20	24	24	40	48	24	24	24	24	40	40	24	24	24	24	40	.do.	24	40	24	24	24
28	28	28	28	48	60	28	28	28	28	48	48	28	28	28	28	48	.do.	28	48	28	28	28
20	20	28	28	48	60	28	28	28	28	48	48	28	28	28	28	48	.do.	28	48	28	28	28
14	14	20	20	32	40	20	20	20	20	32	32	20	20	20	20	32	.do.	20	32	20	20	20
12	12	14	14	24	32	14	14	14	14	24	24	14	14	14	14	24	.do.	14	24	14	14	14
16	16	20	20	40	48	20	20	20	20	40	40	20	20	20	20	40	.do.	20	40	20	20	20
20	20	28	28	48	60	28	28	28	28	48	48	28	28	28	28	48	.do.	28	48	28	28	28
19	19	27	27	46	58	27	27	27	27	46	46	27	27	27	27	46	.do.	27	46	27	27	27
19	19	27	27	46	58	27	27	27	27	46	46	27	27	27	27	46	.do.	27	46	27	27	27
27	23	27	27	50	58	27	23	39	27	39	27	27	19	27	23	50	39	23	27	23	39	23
27	23	27	27	51	59	27	23	39	27	39	27	27	20	27	23	51	39	23	27	23	39	23
30	26	30	21	51	59	30	26	39	30	39	30	30	21	30	26	51	39	26	30	26	39	26
27	23	27	20	51	59	27	23	39	27	39	27	27	20	27	23	51	39	23	27	23	39	23
23	20	23	16	31	39	23	20	27	23	27	23	23	16	23	20	31	27	20	23	20	27	20
27	23	27	20	51	59	27	23	39	27	39	27	27	20	27	23	51	39	23	27	23	39	23
27	23	27	20	51	59	27	23	39	27	39	27	27	20	23	20	51	39	23	27	23	39	23
27	23	27	20	51	59	27	23	39	27	39	27	27	20	23	20	51	39	23	27	23	39	23
27	23	27	20	51	59	27	23	39	27	39	27	27	20	23	20	51	39	23	27	23	39	23
27	23	27	20	51	59	27	23	39	27	39	27	27	20	23	20	51	39	23	27	23	39	23

TABLE 31.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 639 miles:

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.	Commodities (rates in cents per 100 pounds).																	
				Furniture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar
										Castile and fancy.		Common.					
	Dry goods.	Cotton piece goods.	Boots and shoes.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.
1867—Jan. 1	134	134	134	134	134	134	134	114	114	114	114	92	92	114	114	134	
May 15	134	134	134	134	134	134	134	114	114	114	114	91	91	114	114	134	
Nov. 5	144	144	144	144	144	144	144	121	121	121	121	99	99	121	121	144	
1868—Feb. 4	144	144	144	144	144	144	144	Special rate.		121	121	64	64	99	99	144	
June 4	134	134	134	134	134	134	134	..do....		114	114	59	59	91	91	134	..do....
Aug. 10	106	106	106	106	106	106	106	..do....		91	91	59	59	86	86	106	..do....
Sept. 7	134	134	134	134	134	134	134	..do....		114	114	59	59	91	91	134	..do....
Dec. 7	150	150	150	150	150	150	150	..do....		121	121	60	60	99	99	150	..do....
1869—Feb. 1	134	134	134	134	134	134	134	..do....		114	114	59	59	59	59	134	..do....
Feb. 17	57	57	57	57	57	57	57	..do....		57	57	57	57	57	57	57	..do....
Mar. 15	114	114	114	114	114	114	114	..do....		114	114	59	59	91	91	114	..do....
Apr. 12	114	114	114	114	114	114	114	..do....		114	114	59	59	91	91	114	..do....
July 1	134	134	134	134	134	134	134	..do....		114	114	59	59	91	91	134	..do....
Aug. 23	28	28	28	28	28	28	28	..do....		28	28	28	28	28	28	28	..do....
Oct. 9	53	53	53	53	53	53	53	..do....		53	53	53	53	53	53	53	..do....
Oct. 13	90	90	90	90	90	90	90	..do....		72	72	47	47	54	54	90	..do....
Nov. 1	100	100	100	100	100	100	100	..do....		90	90	58	58	72	72	100	..do....
Nov. 29	108	108	108	108	108	108	108	..do....		93	93	58	58	72	72	108	..do....
1870—Apr. 14	108	108	108	108	108	108	108	..do....		93	93	58	58	72	72	108	..do....
May 4	113	113	113	113	113	113	113	..do....		98	98	58	58	79	79	113	..do....
May 7	113	113	113	113	113	113	113	..do....		98	98	58	58	79	79	113	..do....
June 18	84	84	84	84	84	84	84	..do....		68	68	43	43	54	54	84	..do....
July 25	46	46	46	46	46	46	46	..do....		42	42	31	31	39	39	46	..do....
July 28	35	35	35	35	35	35	35	..do....		35	35	31	31	35	35	35	..do....
Aug. 12	36	36	36	36	36	36	36	..do....		36	36	36	36	36	36	36	Special rate.
Aug. 23	72	72	72	72	72	72	72	..do....		68	68	43	43	54	54	72	..do....
Sept. 8	90	90	90	90	90	90	90	..do....		79	79	47	47	54	54	90	..do....
Nov. 28	112	112	112	112	112	112	112	..do....		91	91	45	45	71	71	112	..do....
Dec. 26	127	127	127	127	127	127	127	42	42	106	106	56	56	84	84	127	
1871—Feb. 15	88	88	88	88	88	88	88	35	35	78	78	46	46	60	60	88	
Feb. 20	106	106	106	106	106	106	106	39	39	91	91	50	50	70	70	106	
Mar. 13	71	71	71	71	71	71	71	32	32	64	64	39	39	50	50	71	
May 18	53	53	53	53	53	53	53	26	26	45	45	26	26	35	35	53	
June 1	71	71	71	71	71	71	71	32	32	64	64	39	39	50	50	71	
July 8	53	53	53	53	53	53	53	26	26	45	45	31	31	35	35	53	
July 26	42	42	42	42	42	42	42	23	23	39	39	28	28	32	32	42	
July 29	52	52	52	52	52	52	52	30	30	44	44	35	35	35	39	52	
Aug. 16	31	31	31	31	31	31	31	21	21	31	31	21	21	31	31	31	
Aug. 22	25	25	25	25	25	25	25	19	19	25	25	25	25	25	25	25	
Sept. 2	21	21	21	21	21	21	21	17	17	21	21	21	21	21	21	21	
Sept. 5	52	52	52	52	52	52	52	30	30	44	44	25	25	39	39	52	
Nov. 27	71	71	71	71	71	71	71	32	32	64	64	39	39	50	50	71	
Dec. 15	88	88	88	88	88	88	88	35	35	78	78	46	46	60	60	88	
1872—Apr. 27	88	88	88	88	88	88	88	35	35	78	78	46	46	60	60	88	
Aug. 1	53	53	53	53	53	53	53	25	25	49	49	39	39	43	43	53	
Sept. 1	88	88	88	88	88	88	88	35	35	78	78	46	46	60	60	88	
Sept. 2	70	70	70	70	70	70	70	32	32	63	63	39	39	60	60	70	
Oct. 14	88	88	88	88	88	88	88	35	35	78	78	46	46	60	60	88	
1873—Apr. 15	70	70	70	70	70	70	70	32	32	63	63	42	42	60	60	70	
July 22	53	53	53	53	53	53	53	25	25	49	49	32	32	43	43	53	
Aug. 12	50	50	50	50	50	50	50	20	20	40	40	29	29	39	39	50	
Aug. 13	29	29	29	29	29	29	29	22	22	29	29	22	22	22	22	29	
Sept. 17	53	53	53	53	53	53	53	25	25	49	49	32	32	43	43	53	
1874—Jan. 1	70	70	70	70	70	70	70	32	32	63	63	42	42	53	53	70	
Aug. 8	53	53	53	53	53	53	53	25	25	49	49	32	32	43	43	53	
1875—Jan. 20	70	70	70	70	70	70	70	32	32	63	63	42	42	53	53	70	
Mar. 17	53	53	53	53	53	53	53	21	21	49	49	32	32	43	43	53	
Aug. 12	40	40	40	40	40	40	40	15	15	30	30	22	22	30	30	40	
Nov. 15	53	53	53	53	53	53	53	25	25	49	49	32	32	43	43	53	
Dec. 22	30	30	30	30	30	30	30	15	15	26	26	20	20	30	30	30	

NEW YORK, N. Y., TO DETROIT, MICH.

Boston, 710 miles; Philadelphia, 648 miles; Baltimore, 628 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																							
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
58	58	58	58	114	134	114	114	114	114	114	114	58	58	58	58	114	184	124	114	114	92	92
59	59	59	59	114	134	114	114	114	114	114	114	59	59	59	59	114	134	134	114	114	91	91
64	64	64	64	121	144	121	121	121	121	121	121	64	64	64	64	121	144	144	121	121	99	99
Special rate.		64	64	121	144	121	121	121	121	121	121	64	64	64	64	121	144	144	121	121	99	99
..do....		59	59	114	134	114	114	114	114	114	114	59	59	59	59	114	134	134	114	114	91	91
..do....		59	59	91	106	91	91	91	91	91	91	59	59	59	59	91	106	106	91	91	86	86
..do....		59	59	114	134	114	114	114	114	91	91	59	59	59	59	114	134	134	114	114	91	91
..do....		60	60	121	150	121	121	121	121	99	99	60	60	60	60	121	150	150	121	121	99	99
..do....		59	59	114	134	114	114	114	114	91	91	59	59	59	59	114	134	134	114	114	59	59
..do....		57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57
..do....		59	59	114	114	114	114	114	114	91	91	59	59	59	59	114	114	114	114	114	91	91
..do....		59	59	114	114	Special rate.		114	114	91	91	59	59	59	59	114	114	114	114	114	91	91
..do....		59	59	114	134	..do....		114	114	114	114	59	59	59	59	114	134	134	114	114	91	91
..do....		28	28	28	28	..do....		28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
..do....		37	37	53	53	..do....		53	53	53	53	37	37	37	37	53	53	53	53	53	53	53
..do....		47	47	72	90	..do....		72	72	72	72	47	47	47	47	72	90	90	72	72	54	54
..do....		58	58	90	100	..do....		90	90	90	90	58	58	58	58	90	100	100	90	90	72	72
..do....		58	58	93	108	..do....		93	93	93	93	58	58	58	58	93	108	108	93	93	72	72
..do....		58	58	93	108	..do....		93	93	93	93	58	58	58	58	93	108	108	93	93	72	72
..do....		58	58	98	113	..do....		98	98	98	98	58	58	58	58	98	113	113	98	98	79	79
..do....		Special rate.		98	113	..do....		98	98	98	98	58	58	58	58	98	113	113	98	98	79	79
..do....		..do....		68	84	..do....		68	68	68	68	43	43	43	43	68	84	84	68	68	54	54
..do....		..do....		42	46	..do....		42	42	42	42	31	31	31	31	42	46	46	42	42	39	39
..do....		..do....		35	35	..do....		35	35	35	35	31	31	31	31	35	35	35	35	35	35	35
..do....		..do....		36	36	..do....		36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
..do....		..do....		68	72	..do....		68	68	68	68	43	43	43	43	68	72	72	68	68	54	54
..do....		..do....		79	90	..do....		79	79	79	79	47	47	47	47	79	90	90	79	79	61	61
..do....		..do....		91	112	..do....		91	91	91	91	45	45	45	45	91	112	112	91	91	71	71
56	56	56	56	106	127	106	106	106	106	106	106	56	56	56	56	106	127	127	106	106	84	84
46	46	46	46	78	88	35	35	78	78	78	78	35	35	46	46	78	88	88	78	78	60	60
50	50	50	50	91	106	39	39	91	91	91	91	39	39	50	50	91	106	106	91	91	71	71
39	39	39	39	64	71	32	32	64	64	64	64	32	32	39	39	64	71	71	64	64	50	50
31	31	31	31	45	53	26	26	45	45	45	45	26	26	31	31	45	53	53	45	45	36	36
39	39	39	39	64	71	32	32	64	64	64	64	32	32	39	39	64	71	71	64	64	50	50
31	31	31	31	45	53	26	26	45	45	45	45	26	26	31	31	45	53	53	45	45	36	36
28	28	28	28	39	42	23	23	39	39	39	39	23	23	28	28	39	42	42	39	39	32	32
35	35	35	35	44	52	30	30	44	44	44	44	30	30	35	35	44	52	52	44	44	39	39
31	31	31	31	31	31	21	21	31	31	31	31	21	21	31	31	31	31	31	31	31	31	31
25	25	25	25	25	25	19	19	25	25	25	25	19	19	25	25	25	25	25	25	25	25	25
21	21	21	21	21	21	17	17	21	21	21	21	17	17	21	21	21	21	21	21	21	21	21
35	35	35	35	44	52	30	30	44	44	44	44	30	30	35	35	44	52	52	44	44	39	39
39	39	39	39	64	71	32	32	64	64	64	64	32	32	39	39	64	71	71	64	64	50	50
46	46	46	46	78	88	78	78	78	78	78	78	35	35	46	46	78	88	88	78	78	60	60
46	46	35	35	78	88	78	78	78	78	78	78	35	35	46	46	78	88	88	78	78	60	60
32	32	25	25	49	53	49	49	49	49	49	25	25	32	32	49	53	53	53	49	49	42	42
46	46	46	46	78	88	78	78	78	78	78	78	35	35	46	46	78	88	88	78	78	60	60
39	39	32	32	63	70	63	63	63	63	63	63	32	32	39	39	63	70	70	63	63	49	49
46	46	35	35	78	88	35	35	78	78	78	78	35	35	46	46	78	88	88	78	78	60	60
42	42	32	32	63	70	32	32	63	63	63	63	32	32	42	42	63	Spe'l rate.	42	63	63	53	53
32	32	25	25	49	53	25	25	49	49	49	49	25	25	32	32	49	.do .	32	49	49	42	42
30	30	30	30	40	50	30	30	40	40	40	40	40	30	30	30	40	.do .	30	40	40	30	30
22	22	22	22	29	30	22	22	29	29	29	29	22	22	22	22	29	.do .	22	29	29	22	22
32	32	25	25	49	53	25	25	49	49	49	49	25	25	32	32	49	.do .	32	49	49	42	42
42	42	32	32	63	70	32	32	63	63	63	63	32	32	42	42	63	.do .	42	63	63	53	53
32	32	25	25	49	53	25	25	49	49	49	49	25	25	32	32	49	.do .	32	49	49	42	42
42	42	32	32	63	70	32	32	63	63	63	63	32	32	42	42	63	.do .	42	63	63	53	53
32	32	25	25	49	53	25	25	49	49	49	49	25	25	32	32	49	.do .	32	49	49	42	42
20	20	15	15	30	40	15	15	30	30	30	30	15	15	20	20	30	.do .	20	30	30	25	25
32	32	25	25	49	53	25	25	49	49	49	49	25	25	32	32	49	.do .	32	49	49	42	42
20	20	15	15	25	30	15	15	25	25	25	25	15	15	20	20	25	.do .	20	25	25	20	20

TABLE 31.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 639 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.	Commodities (rates in cents per 100 pounds.)																			
	Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar.	
										Castile and fancy.		Common.						
				Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.
1876—Jan. 10.....	53	53	53	53	53	53	53	25	25	49	49	32	32	43	43	53	25	15
June 12.....	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25	15	15
Dec. 18.....	40	40	40	40	40	40	40	20	20	35	35	25	25	30	30	40	20	15
1877—Mar. 12.....	53	53	53	53	53	53	53	25	25	49	49	32	32	42	42	53	15	15
1877—Oct. 8.....	53	53	53	53	53	53	28	28	28	49	49	28	28	28	28	53	15	15
Oct. 22.....	70	70	70	70	70	70	32	32	32	63	63	32	32	32	32	70	22	15
Dec. 10.....	70	70	70	70	70	70	32	32	32	56	56	32	32	32	32	70	22	15
1878—Feb. 14.....	53	53	53	53	53	53	28	28	28	42	42	28	28	28	28	53	22	15
1881—Aug. 6.....	32	32	32	32	32	32	14	14	14	22	22	14	14	14	14	32	14	10
Nov. 14.....	42	42	42	42	42	42	20	20	20	35	35	20	20	20	20	42	20	15
1882—July 1.....	42	42	42	42	42	42	21	21	21	35	35	21	21	21	21	42	15	15
Nov. 1.....	53	53	53	53	53	53	25	25	25	42	42	25	25	25	25	53	15	15
1883—June 22.....	53	53	53	53	53	53	25	25	25	42	42	25	25	25	25	53	15	15
1885—Jan. 26.....	35	35	35	35	35	35	18	18	18	28	28	18	18	18	18	35	13	10
June 1.....	28	28	28	28	28	28	13	13	13	21	21	13	13	13	13	28	11	10
Oct. 5.....	42	28	42	42	42	42	18	18	18	35	35	18	18	18	18	42	14	10
Nov. 18.....	53	32	53	53	53	53	25	25	25	42	42	25	25	25	25	53	15	15
1886—Mar. 10.....	59	35	59	59	59	59	37	27	27	47	47	27	27	27	27	59	20	15
Aug. 26.....	59	39	59	59	59	59	27	27	27	47	47	27	27	27	27	59	20	15
1887—Apr. 1.....	59	39	59	59	51	39	23	27	20	51	51	27	23	27	20	59	20	15
1888—Jan. 9.....	59	39	59	59	51	39	26	30	21	51	51	30	26	30	21	59	20	15
Mar. 5.....	59	39	59	59	51	39	23	27	20	51	51	27	23	27	20	59	20	15
Aug. 15.....	59	39	59	59	51	59	23	27	20	51	51	27	23	27	20	59	20	15
Nov. 12.....	39	27	39	39	31	27	20	23	16	31	31	23	20	23	16	39	13	10
Dec. 17.....	59	39	59	59	51	39	23	27	20	51	51	27	23	27	20	59	20	15
1889—Feb. 18.....	59	39	59	59	51	59	23	27	20	51	51	27	23	27	20	59	20	15
1891—Apr. 9.....	59	39	59	59	51	23	20	27	20	51	51	27	20	27	20	59	20	15
1892—Mar. 16.....	59	39	59	59	51	23	20	27	20	27	20	27	20	27	20	59	20	15
May 2.....	59	39	59	59	51	23	20	27	20	27	20	27	20	27	20	59	20	15
June 6.....	59	39	59	59	51	23	20	27	20	27	20	27	20	27	20	59	20	15

NEW YORK, N. Y., TO DETROIT, MICH.—Continued.

Boston, 710 miles; Philadelphia, 648 miles; Baltimore, 628 miles.

than carload or carload quantities they apply on shipments regardless of quantities.]

Commodities (rate in cents per 100 pounds).																							
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
32	32	25	25	49	53	25	25	49	49	49	49	25	25	32	32	49	Spe'l rate.	32	49	49	42	42
16	16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	25	.do .	16	25	25	25	25
25	25	20	20	35	40	20	20	35	35	35	35	20	20	25	25	35	.do .	25	35	35	30	30
32	32	25	25	49	53	25	25	49	49	49	49	25	25	32	32	49	.do .	32	49	49	42	42
28	28	28	28	49	53	28	28	28	28	49	49	28	28	28	28	49	.do .	28	49	28	28	28
32	32	32	32	63	70	32	32	32	32	63	63	32	32	32	32	63	.do .	32	63	32	32	32
32	32	32	32	56	70	32	32	32	32	56	56	32	32	32	32	56	.do .	32	56	32	32	32
28	28	28	28	42	53	28	28	28	28	42	42	28	28	28	28	42	.do .	28	42	28	28	28
14	14	14	14	22	32	14	14	14	14	22	22	14	14	14	14	22	.do .	14	22	14	14	14
20	20	20	20	35	42	20	20	20	20	35	35	20	20	20	20	35	.do .	20	35	20	20	20
18	18	21	21	35	42	21	21	21	21	35	35	21	21	21	21	35	.do .	21	35	21	21	21
25	25	25	20	42	53	25	25	25	25	42	42	25	25	25	25	42	.do .	26	42	25	25	25
18	18	25	24	42	53	25	25	25	25	42	42	25	25	25	25	42	do .	25	42	25	25	25
13	13	18	18	28	35	18	18	18	18	28	28	18	18	18	18	28	.do .	18	28	18	18	18
11	11	13	13	21	28	13	13	13	13	21	21	13	13	13	13	21	.do .	13	21	13	13	13
14	14	18	18	35	42	18	18	18	18	35	35	18	18	18	18	35	.do .	18	35	18	18	18
18	18	25	25	42	53	25	25	25	25	42	42	25	25	25	25	42	.do .	25	42	25	25	25
20	20	27	27	47	59	27	27	27	27	47	47	27	27	27	27	47	.do .	27	47	27	27	27
20	20	27	27	47	59	27	27	27	27	47	47	27	27	27	27	47	.do .	27	47	27	27	27
27	23	27	27	51	59	27	23	39	27	39	27	27	20	27	23	51	39	23	27	23	39	23
30	26	30	21	51	59	30	26	39	30	39	30	30	21	30	26	51	39	26	30	26	39	26
27	23	27	20	51	59	27	23	39	27	39	27	27	20	27	23	51	39	23	27	23	39	23
27	23	27	20	51	59	27	23	39	27	39	27	27	20	27	23	51	39	23	27	23	39	23
23	20	23	16	31	39	23	20	27	23	27	23	23	16	23	20	31	27	20	23	20	27	20
27	23	27	20	51	59	27	23	38	27	39	27	27	20	27	23	51	39	23	27	23	39	23
27	23	27	20	51	59	27	23	39	27	39	27	27	20	27	23	51	39	23	27	23	39	23
27	23	27	20	51	59	27	23	39	27	39	27	27	20	23	20	51	39	23	27	23	39	23
27	23	27	20	51	59	27	23	39	27	39	27	27	20	23	20	51	39	23	27	23	39	23
27	23	27	20	51	59	27	23	39	27	39	27	27	20	23	20	51	39	23	27	23	39	23
27	23	27	20	51	59	27	23	39	27	39	27	27	20	23	20	51	39	23	27	23	39	23

TABLE 32.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 592 miles:

[NOTE.—Where the rates shown are not specially described as applying to

Date.	Commodities (rates in cents per 100 pounds).																	
	Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soap.				Starch.		Tea.	Sugar.	
										Castile or fancy.		Common.						
				Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.
1867—Jan. 1	126	126	126	126	126	126	126	107	107	107	107	86	86	107	107	126		
Nov. 5	136	136	136	136	136	136	136	114	114	114	114	93	93	114	114	136		
1868—Feb. 4	136	136	136	136	136	136	136	Special rate.		114	114	57	57	93	93	136		
June 4	126	126	126	126	126	126	126	..do....		107	107	54	54	86	86	126		
Aug. 10	100	100	100	100	100	100	100	..do....		86	86	54	54	80	80	100		
Sept. 7	126	126	126	126	126	126	126	..do....		107	107	54	54	86	86	126		
Oct. 1	60	60	60	60	60	60	60	..do....		56	56	45	45	50	50	60		
Dec. 7	136	136	136	136	136	136	136	..do....		114	114	57	57	93	93	136		
1869—Feb. 1	126	126	126	126	126	126	126	..do....		107	107	54	54	86	86	126		
17	35	35	35	35	35	35	35	..do....		35	35	35	35	35	35	35		
Mch. 15	107	107	107	107	107	107	107	..do....		107	107	54	54	86	86	107		
May 12	107	107	107	107	107	107	107	..do....		107	107	54	54	86	86	107		
July 1	126	126	126	126	126	126	126	..do....		107	107	54	54	86	86	126		
Aug. 11	20	20	20	20	20	20	20	..do....		20	20	20	20	20	20	20		
23	25	25	25	25	25	25	25	..do....		25	25	25	25	25	25	25		
30	29	29	29	29	29	29	29	..do....		29	29	29	29	29	29	29		
Sept. 22	25	25	25	25	25	25	25	..do....		25	25	25	25	25	25	25		
24	22	22	22	22	22	22	22	..do....		22	22	22	22	22	22	22		
Oct. 4	34	34	34	34	34	34	34	..do....		34	34	34	34	34	34	34		
9	50	50	50	50	50	50	50	..do....		50	50	34	34	34	34	50		
18	84	84	84	84	84	84	84	..do....		67	67	44	44	51	51	84		
Nov. 1	94	94	94	94	94	94	94	..do....		84	84	54	54	67	67	94		
29	101	101	101	101	101	101	101	..do....		87	87	54	54	67	67	101		
1870—Mch. 7	101	101	101	101	101	101	101	..do....		87	87	54	54	67	67	101		
Apr. 19	101	101	101	101	101	101	101	..do....		87	87	54	54	67	67	101		
May 4	112	112	112	112	112	112	112	..do....		96	96	62	62	78	78	112		
June 18	71	71	71	71	71	71	71	..do....		57	57	36	36	46	46	71		
July 25	43	43	43	43	43	43	43	..do....		38	38	28	28	35	35	43		
28	32	32	32	32	32	32	32	..do....		32	32	28	28	32	32	32		
Aug. 12	32	32	32	32	32	32	32	..do....		32	32	32	32	32	32	32		
22	63	63	63	63	63	63	63	..do....		57	57	36	36	46	46	63		
24	73	73	73	73	73	73	73	..do....		65	65	42	42	53	52	73		
1870—Sept. 8	84	84	84	84	84	84	84	..do....		74	74	44	44	57	57	84		
Nov. 28	104	104	104	104	104	104	104	..do....		84	84	42	42	66	66	104		
Dec. 26	118	118	118	118	118	118	118	39	39	98	98	52	52	78	78	118		
1871—Feb. 20	98	98	98	98	98	98	98	36	36	84	84	46	46	66	66	98		
Mch. 7	63	63	63	63	63	63	63	28	28	57	57	36	36	46	46	63		
13	73	73	73	73	73	73	73	33	33	65	65	40	40	50	50	73		
May 18	49	49	49	49	49	49	49	24	24	42	42	29	29	33	33	49		
June 1	73	73	73	73	73	73	73	33	33	65	65	40	40	50	50	73		
July 8	54	54	54	54	54	54	54	29	29	47	47	34	34	38	38	54		
26	39	39	39	39	39	39	39	21	21	36	36	26	26	30	30	39		
28	40	40	40	40	40	40	40	30	30	40	40	25	25	30	30	40		
29	40	40	40	40	40	40	40	29	29	40	40	34	34	38	38	40		
Aug. 16	29	29	29	29	29	29	29	20	20	29	29	20	20	29	29	29		
23	23	23	23	23	23	23	23	17	17	23	23	23	23	23	23	23		
Sept. 5	40	40	40	40	40	40	40	30	30	40	40	25	25	30	30	40		
6	23	23	23	23	23	23	23	20	20	23	23	23	23	23	23	23		
11	20	20	20	20	20	20	20	16	16	20	20	20	20	20	20	20		
Nov. 27	73	73	73	73	73	73	73	33	33	65	65	40	40	50	50	73		
Dec. 15	82	82	82	82	82	82	82	33	33	73	73	43	43	56	56	82		
1872—Aug. 1	49	49	49	49	49	49	49	23	23	46	46	30	30	38	38	49		
Sept. 1	82	82	82	82	82	82	82	33	33	73	73	43	43	56	56	82		
2	65	65	65	65	65	65	65	30	30	59	59	36	36	46	46	65		
Oct. 14	82	82	82	82	82	82	82	33	33	73	73	43	43	56	56	82		
1873—Apr. 14	65	65	65	65	65	65	65	30	30	59	59	36	36	46	46	65		
June 1	49	49	49	49	49	49	49	23	23	46	46	30	30	38	38	49		
11	26	26	26	26	26	26	26	20	20	20	20	20	20	20	20	26		
13	49	49	49	49	49	49	49	23	23	49	49	30	30	38	38	49		

NEW YORK, N. Y., TO CLEVELAND, OHIO.

Boston, 663 miles; Philadelphia, 541 miles; Baltimore, 521 miles.

[Less than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																							
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	
54	54	54	54	107	126	107	107	107	107	107	107	54	54	54	54	107	126	126	107	107	86	86	
57	57	57	57	114	136	114	114	114	114	114	114	57	57	57	57	114	136	136	114	114	93	93	
Special rate.		57	57	114	136	114	114	114	114	114	114	57	57	57	57	114	136	136	114	114	93	93	
..do....		54	54	107	126	107	107	107	107	107	107	54	54	54	54	107	126	126	107	107	86	86	
..do....		54	54	86	100	86	86	86	86	86	86	54	54	54	54	86	100	100	86	86	80	80	
..do....		54	54	107	126	107	107	107	107	107	107	54	54	54	54	107	126	126	107	107	86	86	
..do....		45	45	56	60	56	56	56	56	56	56	45	45	45	45	56	60	60	56	56	50	50	
..do....		57	57	114	113	114	114	114	114	114	114	57	57	57	57	114	136	136	114	114	93	93	
..do....		54	54	107	126	107	107	107	107	107	107	54	54	54	54	107	126	126	107	107	86	86	
..do....		35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	
..do....		54	54	107	107	107	107	107	107	107	107	54	54	54	54	107	107	107	107	107	86	86	
..do....		54	54	107	107	Special rate.		107	107	107	107	54	54	54	54	107	107	107	107	107	86	86	
..do....		54	54	107	126	..do....		107	107	107	107	54	54	54	54	107	126	126	107	107	86	86	
..do....		20	20	20	20	..do....		20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
..do....		25	25	25	25	..do....		25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
..do....		29	29	29	29	..do....		29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	
..do....		25	25	25	25	..do....		25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	
..do....		22	22	22	22	..do....		22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	
..do....		34	34	34	34	..do....		34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	
..do....		34	34	50	50	..do....		50	50	50	50	34	34	34	34	50	50	50	50	50	50	50	
..do....		44	44	67	84	..do....		67	67	67	67	44	44	44	44	67	84	84	67	67	51	51	
..do....		54	54	84	94	..do....		84	84	84	84	54	54	54	54	84	94	94	84	84	67	67	
..do....		54	54	87	101	..do....		87	87	87	87	54	54	54	54	87	101	101	87	87	67	67	
..do....		Special rate.		87	101	..do....		87	87	87	87	54	54	54	54	87	101	101	87	87	67	67	
..do....		..do....		87	101	..do....		87	87	87	87	54	54	54	54	87	101	101	87	87	67	67	
..do....		62	62	96	112	..do...		96	96	96	96	62	62	62	62	96	112	112	96	96	76	76	
..do....		Special rate.		57	71	..do....		57	57	57	57	36	36	36	36	57	71	71	57	57	46	46	
..do....		..do....		38	43	..do....		38	38	38	38	28	28	28	28	38	43	43	38	38	35	35	
..do....		..do....		32	32	..do....		32	32	32	32	28	28	28	28	32	32	32	32	32	32	32	
..do....		..do....		32	32	..do....		32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	
..do....		..do....		57	63	..do....		57	57	57	57	36	36	36	36	57	63	63	57	57	46	46	
..do....		..do....		65	73	..do....		65	65	65	65	42	42	42	42	65	73	73	65	65	52	52	
..do....		..do....		74	84	..do....		74	74	74	74	44	44	44	44	74	84	84	74	74	57	57	
..do....		..do....		84	104	..do....		84	84	84	84	42	42	42	42	84	104	104	84	84	66	66	
52	52	52	52	98	118	98	98	98	98	98	98	52	52	52	52	98	118	118	98	98	78	78	
46	46	46	46	84	98	36	36	84	84	84	84	36	36	46	46	84	98	98	84	84	66	66	
36	36	36	36	57	63	28	28	57	57	57	57	28	28	36	36	57	63	63	57	57	46	46	
40	40	40	40	65	73	33	33	65	65	65	65	33	33	40	40	65	73	73	65	65	50	50	
29	29	29	29	42	49	24	24	42	42	42	42	24	24	29	29	42	49	49	42	42	33	33	
40	40	40	40	65	73	33	33	65	65	65	65	33	33	40	40	65	73	73	65	65	50	50	
34	34	34	34	47	54	29	29	47	47	47	47	29	29	34	34	47	54	54	47	47	38	38	
26	26	26	26	36	39	21	21	36	36	36	36	21	21	26	26	36	39	39	36	36	30	30	
35	35	35	40	40	30	30	40	40	40	40	40	30	30	35	35	40	40	40	40	40	39	39	
34	34	34	34	40	40	29	29	40	40	40	40	29	29	34	34	40	40	40	40	40	38	38	
29	29	29	29	29	20	20	29	29	29	29	29	20	20	29	29	29	29	29	29	29	29	29	
23	23	23	23	23	23	17	17	23	23	23	23	17	17	23	23	23	23	23	23	23	23	23	
35	35	35	35	40	40	30	30	40	40	40	40	30	30	35	35	40	40	40	40	40	39	39	
23	23	23	23	23	20	20	23	23	23	23	23	20	20	23	23	23	23	23	23	23	23	23	
20	20	20	20	20	20	16	16	20	20	20	20	16	16	20	20	20	20	20	20	20	20	20	
40	40	40	40	65	73	33	33	65	65	65	65	33	33	40	40	65	73	73	65	65	50	50	
43	43	33	33	72	83	72	72	72	72	72	72	33	33	43	43	72	82	82	72	72	56	56	
30	30	23	23	46	49	46	46	46	46	46	46	23	23	30	30	46	49	49	46	46	39	39	
43	43	33	33	72	82	72	72	72	72	72	72	33	33	43	43	72	82	82	72	72	56	56	
36	36	30	30	59	65	59	59	59	59	59	59	30	30	36	36	59	65	65	59	59	46	46	
43	43	33	33	72	82	33	33	72	72	72	72	33	33	43	43	72	82	82	72	72	56	56	
39	39	30	30	59	65	30	30	59	59	59	59	30	30	39	39	59	39	Sp'l rate.	59	59	49	49	
30	30	23	23	46	49	23	23	46	46	46	46	23	23	30	30	46	30	.do	46	46	49	49	
20	20	20	20	26	26	20	20	26	26	26	26	20	20	20	20	26	20	.do	26	26	20	20	
30	30	23	20	40	40	23	23	40	40	40	40	23	23	30	30	40	30	.do	46	40	30	30	

TABLE 32.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 582 miles;

[NOTE.—Where the rates shown are not specifically described as applying on les

Date.		Commodities (rates in cents per 100 pounds).																	
		Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar	
											Castile and fancy.		Common.						
					Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.
1873—June	13.....	29	29	29	29	29	29	29	22	22	29	29	22	22	22	22	29	22	16
	16.....	35	35	35	35	35	35	35	23	23	35	35	26	26	26	26	35	22	16
Sept.	17.....	49	49	49	49	49	49	49	23	23	46	46	30	30	30	30	49	22	16
1874—Jan.	1.....	65	65	65	65	65	65	65	30	30	59	59	39	39	49	49	65	30	21
Aug.	3.....	49	49	49	49	49	49	49	23	23	35	35	30	30	26	26	49	22	16
1875—Jan.	20.....	65	65	65	65	65	65	65	30	30	59	59	39	39	49	49	65	30	21
Mar.	17.....	49	49	49	49	49	49	49	20	20	35	35	30	30	26	26	49	20	14
May	26.....	35	35	35	35	35	35	35	18	18	32	32	23	23	30	30	35	18	12
	29.....	25	25	25	25	25	25	25	15	15	25	25	18	18	20	20	25	15	10
Aug.	12.....	40	40	40	40	40	40	40	15	15	30	30	20	20	25	25	40	15	10
Nov.	15.....	49	49	49	49	49	49	49	23	23	46	46	30	30	39	39	49	22	16
Dec.	22.....	30	30	30	30	30	30	30	15	15	25	25	20	20	20	20	30	15	10
1876—Jan.	10.....	49	49	49	49	49	49	49	23	23	46	46	30	30	39	39	49	22	16
June	12.....	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25	16	11
July	28.....	15	15	15	15	15	15	15	10	10	15	15	10	10	15	15	15	10	7
1877—Mar.	12.....	49	49	49	49	49	49	49	23	23	46	46	30	30	30	30	49	22	16
Oct.	8.....	49	49	49	49	49	49	26	26	26	46	46	26	26	26	26	49	26	17
	22.....	65	65	65	65	65	65	30	30	30	59	59	30	30	30	30	65	30	20
Dec.	10.....	65	65	65	65	65	65	30	30	30	52	52	30	30	30	30	65	30	20
1878—Feb.	14.....	49	49	49	49	49	49	26	26	26	39	39	26	26	26	26	49	26	17
1881—Aug.	6.....	30	30	30	30	30	30	13	13	13	21	21	13	13	13	13	30	13	9
Nov.	14.....	39	39	39	39	39	39	19	19	19	33	33	19	19	19	19	39	19	13
1882—Jan.	24.....	39	39	39	39	29	39	18	18	18	32	32	18	18	18	18	39	18	12
July	1.....	39	39	39	39	39	39	20	20	20	33	33	20	20	20	20	39	17	11
Nov.	1.....	49	49	49	49	49	49	23	23	23	39	39	23	23	23	23	49	17	11
1883—June	22.....	49	49	49	49	49	49	23	23	23	39	39	23	23	23	23	49	17	11
Jan.	26.....	33	33	33	33	33	33	17	17	17	26	26	17	17	17	17	33	17	11
June	1.....	26	26	26	26	26	26	12	12	12	20	20	12	12	12	12	26	12	8
Oct.	5.....	39	26	39	39	39	39	17	17	17	33	33	17	17	17	17	39	12	8
Nov.	18.....	49	30	49	49	49	49	23	23	23	39	39	23	23	23	23	49	17	11
1886—Mar.	10.....	53	32	53	53	53	53	25	25	25	43	43	25	25	25	25	53	18	12
Aug.	26.....	53	36	53	53	53	53	25	25	25	43	43	25	25	25	25	53	18	12
1887—Apr.	1.....	53	36	53	53	46	36	21	25	18	46	46	25	21	25	18	53	15	10
1888—Jan.	9.....	53	36	53	53	46	36	23	27	20	46	46	27	23	27	20	53	17	11
Aug.	15.....	53	36	53	53	46	53	21	25	18	46	46	25	21	25	18	53	15	10
Nov.	12.....	36	25	36	36	28	25	18	21	14	25	25	21	18	21	14	36	12	8
Dec.	17.....	53	36	53	53	46	36	21	25	18	46	46	25	21	25	18	53	15	10
1891—Apr.	9.....	53	36	53	53	46	21	18	25	18	46	46	25	21	25	18	53	15	10
1892—Mar.	16.....	53	36	53	53	46	21	18	25	18	25	18	25	18	25	18	53	15	10
May	2.....	53	36	53	53	46	21	18	25	18	25	18	25	18	25	18	53	15	10
June	6.....	53	36	53	53	46	21	18	25	18	25	18	25	18	25	18	53	15	10

NEW YORK, N. Y., TO CLEVELAND, OHIO—Continued.

Boston, 663 miles; Philadelphia, 541 miles; Baltimore, 521 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																							
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
22	22	22	22	29	29	22	22	29	29	29	29	22	22	22	22	29	22	Sp'l rate	29	29	22	22
26	26	23	23	35	35	23	23	35	35	35	25	23	23	26	26	35	26	.do	35	35	26	26
30	30	23	23	46	49	23	23	46	46	46	46	23	23	30	30	46	30	.do	46	46	39	39
39	39	30	30	59	65	30	30	59	59	59	59	30	30	39	39	59	39	.do	59	59	49	49
30	30	23	23	35	35	23	23	35	35	35	35	23	23	30	30	35	30	.do	35	35	26	26
39	39	30	30	59	65	30	30	59	59	59	59	30	30	39	39	59	.do	39	59	59	49	94
30	30	23	23	35	49	23	23	35	35	35	35	23	23	30	30	35	.do	30	35	35	26	26
23	23	18	18	32	35	18	18	32	32	32	32	18	18	23	23	32	.do	23	32	32	30	30
18	18	15	15	25	25	15	15	25	25	25	25	15	15	18	18	25	.do	18	25	25	20	20
20	20	15	15	30	40	15	15	30	30	30	30	15	15	20	20	30	.do	20	30	30	25	25
30	30	23	23	46	49	23	23	46	46	46	46	23	23	30	30	46	.do	30	46	46	39	39
20	20	15	15	25	30	15	15	25	25	25	25	15	15	20	20	25	.do	20	25	25	20	20
30	30	23	23	46	49	23	23	46	46	46	46	23	23	30	30	46	.do	30	46	46	39	39
16	16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	25	.do	16	25	25	25	25
10	10	10	10	15	15	10	10	15	15	15	15	10	10	10	10	15	.do	10	15	15	15	15
30	30	23	23	46	49	23	23	46	46	46	46	23	23	30	30	46	.do	30	46	46	39	39
26	26	26	26	46	49	26	26	26	26	46	46	26	26	26	26	46	.do	26	46	26	26	26
30	30	30	30	59	65	30	30	30	30	59	59	30	30	30	30	59	.do	30	59	30	30	30
30	30	30	30	52	65	30	30	30	30	52	52	30	30	30	30	52	.po	30	52	30	30	30
26	26	26	26	39	49	26	26	26	26	39	39	26	26	26	26	39	.do	26	39	26	26	26
13	13	13	13	21	30	13	13	13	13	21	21	13	13	13	13	21	.do	13	21	13	13	13
19	19	19	19	33	39	19	19	19	19	33	33	19	19	19	19	33	.do	19	33	19	19	19
18	18	18	18	32	39	18	18	18	18	32	32	18	18	18	18	32	.do	18	32	18	18	18
17	17	20	20	33	39	20	20	20	20	33	33	20	20	20	20	33	.do	20	33	20	20	20
23	23	23	23	39	49	23	23	23	23	39	39	23	23	23	23	39	.do	23	39	23	23	23
17	17	23	23	39	49	23	23	23	23	39	39	23	23	23	23	39	.do	23	39	23	23	23
12	12	17	17	26	33	17	17	17	17	26	26	17	17	17	17	26	.do	17	26	17	17	17
10	10	12	12	20	26	12	12	12	12	20	20	12	12	12	12	20	.do	12	20	12	12	12
13	13	17	17	33	39	17	17	17	17	33	33	17	17	17	17	33	.do	17	33	17	17	17
17	17	23	23	39	49	23	23	23	23	39	39	23	23	23	23	39	.do	23	39	23	23	23
18	18	25	25	43	53	25	25	25	25	43	43	25	25	25	25	43	.do	25	43	25	25	25
18	18	25	25	43	53	25	25	25	25	43	43	25	25	25	25	43	.do	25	43	25	25	25
25	21	25	25	46	53	25	21	36	25	36	25	25	18	25	21	46	36	21	25	21	36	21
27	23	27	27	46	53	27	23	36	27	36	27	27	20	27	23	46	36	23	27	23	36	23
25	21	25	18	46	53	21	18	36	25	36	25	25	18	25	21	46	36	21	25	21	36	21
21	18	21	14	25	36	21	18	25	21	21	14	21	14	21	18	25	25	18	21	18	25	18
25	21	25	18	46	53	25	21	36	25	36	25	25	18	25	21	46	36	21	25	21	36	21
25	21	25	18	46	53	21	18	36	25	36	25	25	18	21	18	46	36	21	25	21	36	21
25	21	25	18	46	53	21	18	36	25	36	25	25	18	21	18	46	36	21	25	21	36	21
25	21	25	18	46	53	21	18	36	25	36	25	25	18	21	18	46	36	21	25	21	36	21

TABLE 33.—RATES OF FREIGHT, ALL RAIL

DISTANCE VIA SHORTEST ROUTE.—From New York, 497 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less than

Date.	Commodities (rates in cents per 100 pounds).																		
	Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar	
										Castile and fancy.		Common.						
				Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carload.	Less than carload.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	
1867—May 15	113	113	113	113	113	113	113	95	95	95	95	75	75	95	95	113	56	
Nov. 5	120	120	120	120	120	120	120	100	100	100	100	80	80	100	100	120	5[illegible]	
1868—Feb. 4	120	120	120	120	120	120	120	Special rate.		100	100	52	52	80	80	120	S[illegible]	
June 4	113	113	113	113	113	113	113	..do....		95	95	50	50	75	75	113	..do	
Aug. 10	95	95	95	95	95	95	95	..do....		80	80	50	50	71	71	95	..do	
Sept. 7	113	113	113	113	113	113	113	..do....		95	95	50	50	75	75	113	..do	
Dec. 7	120	120	120	120	120	120	120	..do....		100	100	52	52	80	80	120	..do	
1869—Feb. 1	113	113	113	113	113	113	113	..do....		95	95	50	50	75	75	112	..do	
Mar. 15	100	100	100	100	100	100	100	..do....		95	95	50	50	75	75	100	..do	
Mar. 29	95	95	95	95	95	95	95	..do....		95	95	50	50	75	75	95	..do	
April 12	95	95	95	95	95	95	95	..do....		95	95	50	50	75	75	95	..do	
July 1	108	108	108	108	108	108	108	..do....		95	95	50	50	75	75	108	..do	
Aug. 11	35	35	35	35	35	35	35	..do....		35	35	35	35	35	35	35	..do	
Aug. 30	30	30	30	30	30	30	30	..do....		30	30	30	30	30	30	30	..do	
Sept. 24	25	25	25	25	25	25	25	..do....		25	25	25	25	25	25	25	..do	
Oct. 4	50	50	50	50	50	50	50	..do....		45	45	35	35	40	40	50	..do	
Oct. 13	80	80	80	80	80	80	80	..do....		63	63	41	41	48	48	80	..do	
Nov. 1	83	83	83	83	83	83	83	..do....		74	74	48	48	59	59	83	..do	
Nov. 29	89	89	89	89	89	89	89	..do....		76	76	48	48	59	59	89	..do	
1870—May 7	89	89	89	89	89	89	89	..do....		76	76	48	48	59	59	89	..do	
June 22	71	71	71	71	71	71	71	..do....		57	57	36	36	46	46	71	..do	
July 7	75	75	75	75	75	75	75	..do....		60	60	38	38	50	50	75	..do	
July 25	38	38	38	38	38	38	38	..do....		34	34	25	25	31	31	38	..do	
July 28	32	32	32	32	32	32	32	..do....		32	32	25	25	31	31	32	..do	
Aug. 12	32	32	32	32	32	32	32	..do....		32	32	32	32	32	32	32	..do	
Aug. 23	55	55	55	55	55	55	55	..do....		50	50	32	32	40	40	55	..do	
Sept. 8	74	74	74	74	74	74	74	..do....		65	65	40	40	50	50	74	..do	
Nov. 28	90	90	90	90	90	90	90	..do....		71	71	36	36	56	56	90	..do	
Dec. 26	106	106	106	106	106	106	106	35	35	88	88	46	46	70	70	106	26	
1871—Feb. 20	88	88	88	88	88	88	88	32	32	75	75	41	41	58	58	88	26	
Mar. 13	59	59	59	59	59	59	59	26	26	52	52	32	32	41	41	59	26	
May 18	45	45	45	45	45	45	45	22	22	40	40	27	27	32	32	45	26	
June 1	59	59	59	59	59	59	59	26	26	52	52	32	32	41	41	59	26	
July 8	45	45	45	45	45	45	45	22	22	40	40	27	27	32	32	45	26	
Aug. 16	29	29	29	29	29	29	29	20	20	29	29	29	29	29	29	29	26	
Aug. 18	27	27	27	27	27	27	27	17	17	27	27	27	27	27	27	27	26	
Aug. 22	23	23	23	23	23	23	23	17	17	23	23	23	23	23	23	23	26	
Nov. 29	59	59	59	59	59	59	59	26	26	52	52	32	32	41	41	59	26	
Dec. 15	82	82	82	82	82	82	82	33	33	72	72	43	43	56	56	82	26	
1872—Apr. 27	82	82	82	82	82	82	82	33	33	72	72	43	43	56	56	82	26	
Aug. 1	49	49	49	49	49	49	49	23	23	46	46	30	30	39	39	49	26	
Sept. 1	82	82	82	82	82	82	82	33	33	72	72	43	43	56	56	82	26	
Sept. 2	55	55	55	55	55	55	55	25	25	50	50	31	31	39	39	55	26	
Oct. 14	82	82	82	82	82	82	82	33	33	72	72	43	43	56	56	82	26	
1873—Apr. 14	65	65	65	65	65	65	65	25	25	55	55	35	35	45	45	65	26	
June 11	49	49	49	49	49	49	49	23	23	46	46	30	30	39	39	49	26	
July 22	49	49	49	49	49	49	49	20	20	40	40	30	30	35	35	49	26	
Aug. 11	22	22	22	22	22	22	22	17	17	23	23	17	17	17	17	22	26	
Aug. 12	40	40	40	40	40	40	40	30	30	40	40	30	30	30	30	40	26	
Aug. 13	35	35	35	35	35	35	35	18	18	35	35	26	26	28	28	35	26	
Aug. 16	35	35	35	35	35	35	35	23	23	35	35	26	26	28	28	35	26	
Aug. 21	29	29	29	29	29	29	29	22	23	29	29	22	22	22	22	29	26	
Sept. 17	45	45	45	45	45	45	45	20	20	40	40	30	30	35	35	45	26	
1874—Jan. 1	60	60	60	60	60	60	60	25	25	50	50	30	30	40	40	60	26	
Aug. 3	45	45	45	45	45	45	45	20	20	40	40	30	30	35	35	45	26	
1875—Jan. 20	60	60	60	60	60	60	60	25	25	50	50	30	30	40	40	60	26	
Mar. 17	45	45	45	45	45	45	45	20	20	40	40	30	30	35	35	45	26	
Dec. 22	30	30	30	30	30	30	30	15	15	25	25	20	20	25	25	30	26	
1876—Jan. 10	45	45	45	45	45	45	45	22	22	45	45	30	30	35	35	45	26	
June 12	25	25	25	25	25	25	25	16	16	25	25	16	16	20	20	25	26	
July 28	15	15	15	15	15	15	15	10	10	15	15	10	10	15	15	15	26	

'ROM NEW YORK, N. Y., TO ERIE, PA.

Boston, 568 miles; Philadelphia, 446 miles; Baltimore, 425 miles.

arload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).

Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.	Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
50	50	50	50	95	113	95	95	95	95	95	95	50	50	50	50	95	113	113	113	113	75	75
52	52	52	52	100	120	100	100	100	100	100	100	52	52	52	52	100	120	120	120	120	80	80
Special rate.		52	52	100	120	100	100	100	100	100	100	52	52	52	52	100	120	120	120	120	80	80
..do....		50	50	95	113	95	95	95	95	95	95	50	50	50	50	95	113	113	113	113	75	75
..do....		50	50	80	95	80	80	80	80	80	80	50	50	50	50	80	95	95	95	95	71	71
..do....		50	50	95	113	95	95	95	95	95	95	50	50	50	50	95	113	113	113	113	75	75
do....		52	52	100	120	100	100	100	100	100	100	52	52	52	52	100	120	120	120	120	80	80
do....		50	50	95	113	95	95	95	95	95	95	50	50	50	50	95	113	113	113	113	75	75
do....		50	50	95	100	95	95	95	95	95	95	50	50	50	50	95	100	100	100	100	75	75
do....		50	50	95	95	95	95	95	95	55	95	50	50	50	50	95	95	95	95	95	75	75
..do....		50	50	95	95	Special rate.		95	95	95	95	50	50	50	50	95	95	95	95	95	75	75
..do....		50	50	95	108	..do....		95	95	95	95	50	50	50	50	95	108	108	95	95	75	75
do....		35	35	35	35	..do....		35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
do....		30	30	30	30	..do....		30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
do....		25	25	25	25	..do....		25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
do....		35	35	45	50	..do....		45	45	45	45	35	35	35	35	45	50	50	45	45	40	40
do....		41	41	63	80	..do....		63	63	63	63	41	41	41	41	63	80	80	63	63	48	48
..do....		48	48	74	83	..do....		74	74	74	74	48	48	48	48	74	83	83	74	74	59	59
..do....		48	48	76	89	..do....		76	76	76	76	48	48	48	48	76	89	89	76	76	59	59
do....		Special rate.		76	89	..do....		76	76	76	76	48	48	48	48	76	89	89	76	76	59	59
..do....		..do....		57	71	..do....		57	57	57	57	36	36	36	36	57	71	71	57	57	46	46
..do....		..do....		60	75	..do....		60	60	60	60	38	38	38	38	60	75	75	60	60	50	50
..do....		..do....		34	38	..do....		34	34	34	34	25	25	25	25	34	38	38	34	34	31	31
do....		..do....		32	32	..do....		32	32	32	32	25	25	25	25	32	32	32	32	32	31	31
do....		..do....		32	32	..do....		32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
..do....		..do....		50	55	..do....		50	50	50	50	31	31	31	32	50	55	55	50	50	40	40
..do....		..do....		65	74	..do....		65	65	65	65	40	40	40	40	65	74	74	65	65	50	50
do....		..do....		71	90	..do....		71	71	71	71	36	36	36	36	71	90	90	71	71	56	56
46	46	46	46	88	106	88	88	88	88	88	88	46	46	46	46	88	106	106	88	88	70	70
41	41	41	41	75	88	32	32	75	75	75	75	32	32	41	41	75	88	88	75	75	58	58
32	32	32	32	52	59	26	26	52	52	52	52	26	26	32	32	52	59	59	52	52	41	41
27	27	27	27	40	45	22	22	40	40	40	40	22	22	27	27	40	45	45	40	40	32	32
32	32	32	32	52	59	26	26	52	52	52	52	26	26	32	32	52	59	59	52	52	41	41
27	27	27	27	40	45	22	22	40	40	40	40	22	22	27	27	40	45	45	40	40	32	32
29	29	29	29	29	29	20	20	29	29	29	29	20	20	29	29	29	29	29	29	29	29	29
27	27	27	27	27	27	17	17	27	27	27	27	17	17	27	27	27	27	27	27	27	27	27
23	23	23	23	23	23	17	17	23	23	23	23	17	17	23	23	23	23	23	23	23	23	23
32	32	32	32	52	59	26	26	52	52	52	52	26	26	32	32	52	59	59	52	52	41	41
43	43	43	43	72	82	72	72	72	72	72	72	33	33	43	43	72	82	82	72	72	56	56
43	43	33	33	72	82	72	72	72	72	72	72	33	33	43	43	72	82	82	72	72	56	56
30	30	23	23	46	49	46	46	46	46	46	46	23	23	30	30	46	49	49	46	46	39	39
43	43	43	43	72	82	72	72	72	72	72	72	33	33	43	43	72	82	82	72	72	56	56
31	31	25	25	50	55	50	50	50	50	50	50	25	25	31	31	50	55	55	50	50	39	39
43	43	33	33	72	82	33	32	72	72	72	72	33	33	43	43	72	82	82	72	72	56	56
35	35	25	25	55	65	25	25	55	55	55	55	25	25	35	35	55	Special rate.	35	55	55	45	45
30	30	23	23	46	49	23	23	46	46	46	46	23	23	30	30	46	..do....	30	46	46	39	39
30	30	20	20	40	49	20	20	40	40	40	40	20	20	30	30	40	..do....	30	40	40	35	35
17	17	17	17	22	22	17	17	22	23	22	22	17	17	17	17	22	..do....	17	22	22	17	17
30	30	30	30	40	40	30	30	40	40	40	40	30	30	30	30	40	..do....	30	40	40	30	30
28	28	18	18	35	35	18	18	35	35	35	35	18	18	26	26	35	..do....	26	35	35	28	28
26	26	23	23	35	35	23	23	35	35	35	35	23	23	26	26	35	..do....	23	35	35	26	26
22	22	22	22	29	29	22	22	29	29	29	29	22	22	22	22	29	..do....	22	29	29	22	22
30	30	20	20	40	45	20	20	40	40	40	40	20	20	30	30	40	..do....	30	40	40	35	35
30	30	25	25	50	60	25	25	50	50	50	50	25	25	30	30	50	..do....	30	50	50	40	40
30	30	20	20	40	45	20	20	40	40	40	40	20	20	30	30	40	..do....	30	40	40	35	35
30	30	25	25	50	60	25	25	50	50	50	50	25	25	30	30	50	..do....	30	50	50	40	40
30	30	20	20	40	45	20	20	40	40	40	40	20	20	30	30	40	..do....	30	40	40	35	35
20	20	15	15	25	30	15	15	25	25	25	25	15	15	20	20	25	..do....	20	25	25	20	20
30	30	20	20	46	45	23	23	46	46	46	46	20	30	30	30	46	..do....	30	46	46	35	35
16	16	16	16	25	35	16	16	25	25	25	25	16	16	16	16	25	..do....	16	25	25	25	25
10	10	10	10	15	15	10	10	15	15	15	15	10	10	10	10	15	..do....	10	15	15	15	51

TABLE 33.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 497 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.	Commodities (rates in cents per 100 pounds).																			
	Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar	
										Castile and fancy.		Common.						
				Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.
1877—Oct. 8.....	40	40	40	40	40	40	24	24	24	35	35	24	24	24	24	40	24	2
Oct. 22.....	60	60	60	60	60	60	26	26	26	50	50	26	26	26	26	60	26	2
Dec. 10.....	60	60	60	60	60	60	26	26	26	44	44	26	26	26	26	60	26	2
Dec. 18.....	40	40	40	40	40	40	20	20	20	35	35	25	25	25	30	40	20	2
1878—Feb. 14.....	43	43	43	43	43	43	23	23	23	35	35	23	23	23	23	42	23	2
1882—Jan. 24.....	30	30	30	30	30	30	13	13	13	21	21	13	13	13	13	30	13	1
Apr. 24.....	19	19	19	19	19	19	10	10	10	16	16	10	10	10	10	19	10	1
July 1.....	35	35	35	35	35	35	17	17	17	30	30	17	17	17	17	35	13	1
Nov. 1.....	43	43	43	43	43	43	20	20	20	35	35	20	20	20	20	43	20	2
1883—June 22.....	43	43	43	43	43	43	20	20	20	35	35	20	20	20	20	43	15	1
1887—Apr. 1.....	45	30	45	45	39	30	18	21	15	39	39	23	20	23	16½	45	21	2
1888—Jan. 9.....	45	30	45	45	39	30	20	23	16½	39	39	23	20	23	16½	45	21	2
Mar. 5.....	45	30	45	45	39	30	18	21	15	39	39	21	18	21	15	45	21	2
Nov. 12.....	30	21	30	30	24	21	15	18	12	24	24	18	15	18	12	30	18	1
Dec. 17.....	45	30	45	45	39	30	18	21	15	39	39	21	18	21	15	45	21	2
1889—Feb. 18.....	45	30	45	45	39	45	18	21	15	39	39	21	18	21	15	45	21	2
1891—Apr. 9.....	45	30	45	45	39	18	15	21	15	39	39	21	18	21	15	45	21	2
1892—Mar. 16.....	45	30	45	45	39	18	15	21	15	21	18	21	18	21	18	45	21	2
May 2.....	45	30	45	45	39	18	15	21	15	21	15	21	15	21	15	45	21	1

NEW YORK, N. Y., TO ERIE, PA.—Continued.

Boston, 568 miles; Philadelphia, 446 miles; Baltimore, 425 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																					
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
24	24	24	24	35	40	24	24	24	24	40	40	24	24	24	24	35	Spe'l rate.	24	40	24	24	24
26	26	26	26	50	60	26	26	26	26	50	50	26	26	26	26	50	.do .	26	50	26	26	26
26	26	26	26	44	60	26	26	26	26	44	44	26	26	26	26	44	.do .	26	44	26	26	26
25	25	20	20	35	40	20	20	35	35	35	35	20	20	25	25	35	.do .	25	35	20	30	30
23	23	23	23	35	43	23	23	23	23	35	35	23	23	23	23	35	.do .	23	35	23	23	23
13	13	13	13	21	30	13	13	13	13	21	21	13	13	13	13	21	.do .	13	21	13	13	13
10	10	10	10	16	19	10	10	10	10	16	16	10	10	10	10	16	.do .	10	16	10	10	10
13	13	17	17	30	35	17	17	17	17	30	30	17	17	17	17	30	.do .	17	30	17	17	17
20	20	20	20	35	43	20	20	20	20	35	35	20	20	20	20	35	.do .	20	35	20	20	20
15	15	20	20	35	43	20	20	20	20	35	35	20	20	20	20	35	.do .	20	35	20	20	20
21	18	21	21	39	45	21	18	30	21	30	21	21	15	21	18	39	30	18	21	18	30	18
23	20	23	16½	39	45	23	20	30	23	30	23	23	16½	23	20	39	23	20	23	20	30	20
21	18	21	15	39	45	21	18	30	21	30	21	21	15	21	18	39	30	18	21	18	30	18
18	15	18	12	24	30	18	15	21	18	21	18	18	12	18	15	24	21	15	18	15	21	15
21	18	21	15	39	45	21	18	30	21	30	21	21	15	21	18	39	30	18	21	18	30	18
21	18	21	15	39	45	21	18	30	21	30	21	21	15	21	18	39	30	18	21	18	30	18
21	18	21	15	39	45	21	18	30	21	30	21	21	15	18	15	39	30	18	21	18	30	18
21	18	21	15	39	45	21	18	30	21	30	21	21	15	18	15	39	45	18	21	18	30	18
21	18	21	15	39	45	21	18	30	21	30	21	21	15	18	15	39	45	18	21	18	30	18

TABLE 33.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 497 miles;

[NOTE.—Where the rates shown are not specifically described as applying on les

Date.	Commodities (rates in cents per 100 pounds).																		
	Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar	
										Castile and fancy.		Common.						
				Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.
1877—Oct. 8.....	40	40	40	40	40	40	24	24	24	35	35	24	24	24	24	40	26	24
Oct. 22.....	60	60	60	60	60	60	26	26	26	50	50	26	26	26	26	60	26	26
Dec. 10.....	60	60	60	60	60	60	26	26	26	44	44	26	26	26	26	60	26	26
Dec. 18.....	40	40	40	40	40	40	20	20	20	35	35	25	25	35	30	40	20	20
1878—Feb. 14.....	43	43	43	43	43	43	23	23	23	35	35	23	23	23	23	43	23	23
1882—Jan. 24.....	30	30	30	30	30	30	13	13	13	21	21	13	13	13	13	30	13	13
Apr. 24.....	19	19	19	19	19	19	10	10	10	16	16	10	10	10	10	19	10	10
July 1.....	35	35	35	35	35	35	17	17	17	30	30	17	17	17	17	35	13	13
Nov. 1.....	43	43	43	43	43	43	20	20	20	35	35	20	20	20	20	43	20	20
1883—June 22.....	43	43	43	43	43	43	20	20	20	35	35	20	20	20	20	43	15	15
1887—Apr. 1.....	45	30	45	45	39	30	18	21	15	39	39	23	20	23	16½	45	21	15
1888—Jan. 9.....	45	30	45	45	39	30	20	23	16½	39	39	23	20	23	16½	45	23	15½
Mar. 5.....	45	30	45	45	39	30	18	21	15	39	39	21	18	21	15	45	21	15
Nov. 12.....	30	21	30	30	24	21	15	18	12	24	24	18	15	18	12	30	18	12
Dec. 17.....	45	30	45	45	39	30	18	21	15	39	39	21	18	21	15	45	21	15
1889—Feb. 18.....	45	30	45	45	39	45	18	21	15	39	39	21	18	21	15	45	21	15
1891—Apr. 9.....	45	30	45	45	39	18	15	21	15	39	39	21	18	21	15	45	21	15
1892—Mar. 16.....	45	30	45	45	39	18	15	21	15	21	18	21	18	21	18	45	21	15
May 2.....	45	30	45	45	39	18	15	21	15	21	15	21	15	21	15	45	21	15

NEW YORK, N. Y., TO BUFFALO, N. Y.

Boston, 480 miles; Philadelphia, 418 miles; Baltimore, 398 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents).																							
Molasses.		Rice.				Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.			Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.	Groceries.	Drugs.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Hardware.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
33	33	33	33	75	88	75	75	75	75	75	75	33	33	33	33	75	88	88	75	75	50	50
40	40	40	40	80	95	80	80	80	80	80	80	40	40	40	40	80	95	95	80	80	65	65
55	55	55	55	95	110	95	95	95	95	95	95	55	55	55	55	95	110	110	95	95	75	75
Special rate.		55	55	95	110	95	95	95	95	95	95	55	55	55	55	95	110	110	95	95	75	75
..do....		40	40	80	95	80	80	80	80	80	80	40	40	40	40	80	95	95	80	80	65	65
..do....		35	35	80	95	80	80	80	80	80	80	35	35	35	35	80	95	95	80	80	65	65
..do....		35	35	71	87	71	71	71	71	71	71	35	35	35	35	71	87	87	71	71	58	58
..do....		55	55	95	110	95	95	95	95	95	95	55	55	55	55	95	110	110	95	95	75	75
..do....		40	40	80	95	80	80	80	80	80	80	40	40	40	40	80	95	95	80	80	65	65
..do....		40	40	80	95	Special rate.		80	80	80	80	40	40	40	40	80	95	95	80	80	65	65
..do....		35	35	71	87	..do....		71	71	71	71	35	35	35	35	71	87	87	71	71	58	58
..do....		Special rate.		40	50	..do....		40	40	40	40	20	20	20	20	40	50	50	40	40	30	30
..do....		..do....		50	60	..do....		50	50	50	50	30	30	30	30	50	60	60	50	50	40	40
..do....		..do....		59	66	..do....		59	59	59	59	38	38	38	38	59	66	66	59	59	47	47
..do....		55	55	95	110	..do....		95	95	95	95	55	55	55	55	95	110	110	95	95	75	75
..do....		Special rate.		95	110	..do....		95	95	95	95	55	55	55	55	95	110	110	95	95	75	75
..do....		..do....		71	87	..do...		71	71	71	71	35	35	35	35	71	87	87	71	71	71	71
..do....		..do....		50	60	..do....		50	50	50	50	30	30	30	30	50	60	60	50	50	40	40
..do....		..do....		65	80	..do....		65	65	65	65	32½	32½	32½	32½	65	80	80	80	80	50	50
40	40	40	40	72	90	72	72	72	72	72	72	40	40	40	40	72	90	90	90	90	60	60
40	40	40	40	72	90	30	30	72	72	72	72	30	30	40	40	72	90	90	90	90	60	60
35	35	35	35	60	70	25	25	60	60	60	60	25	25	35	35	60	70	70	70	70	50	50
40	40	40	40	72	90	30	30	72	72	72	72	30	30	40	40	72	90	90	90	90	60	60
.....	.....	40	40	65	85	.....	.....	65	65	65	65	.....	.....	40	40	65	85	85	65	65	60	60
43	43	43	43	72	82	72	72	72	72	72	72	30	30	43	43	72	82	82	72	72	56	56
35	35	30	30	60	70	60	60	60	60	60	60	25	25	35	35	60	70	70	60	60	50	50
35	35	25	25	45	55	45	45	45	45	45	45	25	25	35	35	45	55	55	45	45	40	40
40	40	40	40	65	85	65	65	65	65	65	65	32½	32½	40	40	65	85	85	65	65	60	60
35	35	25	25	60	70	60	60	60	60	60	60	25	25	35	35	60	70	70	60	60	50	50
40	40	30	30	65	85	30	30	65	65	65	65	30	30	40	40	65	85	85	65	65	60	60
40	40	30	30	60	75	30	30	60	60	60	60	30	30	40	40	60	75	75	60	60	50	50
35	35	25	25	55	65	25	25	55	55	55	55	25	25	35	35	55	Sp'l rate	35	55	55	45	45
30	30	20	20	40	50	20	20	40	40	40	40	20	20	30	30	40	.do.	30	40	40	35	35
17	17	17	17	22	22	17	17	22	22	22	22	17	17	17	17	22	.do.	17	22	22	17	17
30	30	25	25	50	60	25	25	50	50	50	50	25	25	30	30	50	.do.	30	50	50	40	40
30	30	20	20	40	45	20	20	40	40	40	40	20	20	30	30	40	.do.	30	40	40	35	35
40	40	.....	.....	65	85	.....	.....	65	65	65	65	.....	.....	40	40	65	.do.	40	65	65	60	60
30	30	25	25	50	60	25	25	50	50	50	50	25	25	30	30	50	.do.	30	50	50	40	40
30	30	20	20	40	45	20	20	40	40	40	40	20	20	30	30	40	.do.	30	40	40	35	35
20	20	15	15	25	30	15	15	25	25	25	25	15	15	20	20	25	.do.	20	25	25	20	20
30	30	20	20	40	45	20	20	40	40	40	40	20	20	30	30	40	.do.	30	40	40	35	35
16	16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	25	.do.	16	25	25	25	25
10	10	10	10	15	15	10	10	15	15	15	15	10	10	10	10	15	.do.	10	15	15	15	15
16	16	16	16	25	25	16	16	25	25	25	25	16	16	16	16	25	.do.	16	25	25	25	25
25	25	20	20	35	40	20	20	35	35	35	35	20	20	25	25	35	.do.	25	35	35	30	30
30	30	20	20	40	45	20	20	40	40	40	40	20	20	30	30	40	.do.	30	40	40	35	35
24	24	24	24	40	45	24	24	24	24	40	40	24	24	24	24	40	.do.	24	40	24	24	24
26	26	26	26	50	60	26	26	26	26	50	50	26	26	26	26	50	.do.	26	50	26	26	26
26	26	26	20	44	60	26	26	26	26	44	44	26	26	26	26	44	.do.	26	44	26	26	26
23	23	23	23	35	43	23	23	23	23	35	35	23	23	23	23	35	do.	25	35	23	23	23
23	23	23	23	35	43	23	23	23	23	35	35	23	23	23	23	35	.do.	23	43	23	23	23
23	23	23	23	35	43	23	23	23	23	35	35	23	23	23	23	35	.do.	23	35	23	23	23
13	13	13	13	21	30	13	13	13	13	21	21	13	13	13	13	21	.do.	13	21	13	13	13
18	18	18	18	32	39	18	18	18	18	32	32	18	18	18	18	32	do.	18	32	18	18	18
13	13	17	17	30	35	17	17	17	17	30	30	17	17	17	17	30	.do.	17	30	17	17	17
20	20	20	20	35	43	20	20	20	20	35	35	20	20	20	20	35	.do.	20	35	20	20	20
15	15	20	20	35	43	20	20	20	20	35	35	20	20	20	20	35	.do.	20	35	20	20	20
19	19	19	19	33	39	19	16	28	19	28	19	19	13	[illegible]	16	33	28	16	19	16	28	16
20	17	20	14	33	39	20	17	28	20	28	20	20	14	20	17	33	28	17	20	17	28	17
19	16	19	13	33	39	19	16	28	19	28	19	19	13	19	16	33	28	16	19	16	28	16
19	16	19	13	33	39	19	16	28	19	28	19	19	13	19	16	33	28	16	19	16	28	16

TABLE 34.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 409 miles

[NOTE.—Where the rates shown are not specifically described as applying on an

Date.	Commodities (rates in cents per 100 pounds.)																	
				Furniture.		Stoves.		Coffee.		Soap.				Starch.			Sugar	
										Castile and fancy.		Common.						
	Dry goods.	Cotton piece goods.	Boots and shoes.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Tea.	Less than carloads.	Carloads.
1867—May 15	88	88	88	88	88	88	88	75	75	75	75	50	50	75	75	88	33	
Nov. 5	95	95	95	95	95	95	95	80	80	80	80	65	65	80	80	95	40	
Dec. 23	110	110	110	110	110	110	110	95	95	95	95	75	75	95	95	110	55	
1868—Feb. 4	110	110	110	110	110	110	110	Special rate.		95	95	55	55	75	75	110	Special rate.	
Mar. 24	95	95	95	95	95	95	95	..do....		80	80	40	40	65	65	95	..do...	
May 8	95	95	95	95	95	95	95	..do....		80	80	35	35	65	65	95	..do...	
June 23	87	87	87	87	87	87	87	..do....		71	71	35	35	58	58	87	..do...	
Dec. 8	110	110	110	110	110	110	110	..do....		95	95	55	55	75	75	110	..do...	
1869—Mar. 1	95	95	95	95	95	95	95	..do....		80	80	40	40	65	65	95	..do...	
Apr. 12	95	95	95	95	95	95	95	..do....		80	80	40	40	65	65	95	..do...	
Apr. 16	87	87	87	87	87	87	87	..do....		71	71	35	35	58	58	87	..do...	
Sept. 24	50	50	50	50	50	50	50	..do....		40	40	20	20	30	30	50	..do...	
Oct. 4	60	60	60	60	60	60	60	..do....		50	50	30	30	40	40	60	..do...	
Nov. 18	66	66	66	66	66	66	66	..do....		59	59	38	38	47	47	66	..do...	
Dec. 7	110	110	110	110	110	110	110	..do....		95	95	55	55	75	75	110	..do...	
1870—Mar. 7	110	110	110	110	110	110	110	..do....		95	95	55	55	75	75	110	..do...	
Apr. 1	87	87	87	87	87	87	87	..do....		71	71	35	35	71	71	87	..do...	
July 7	60	60	60	60	60	60	60	..do....		50	50	30	30	40	40	60	..do...	
Nov. 28	80	80	80	80	80	80	80	..do....		65	65	32½	32½	50	50	80	..do...	
Dec. 26	90	90	90	90	90	90	90	30	30	72	72	40	40	60	60	90	30	
1871—Feb. 20	90	90	90	90	90	90	90	30	30	72	72	40	40	60	60	90	30	
May 18	70	70	70	70	70	70	70	25	25	60	60	35	35	50	50	70	25	
Dec. 2	90	90	90	90	90	90	90	30	30	72	72	40	40	60	60	90	30	
Dec. 8	85	85	85	85	85	85	85	.....	.....	65	65	40	40	60	60	85		
Dec. 15	82	82	82	82	82	82	82	30	30	72	72	43	43	56	56	82	30	
1872—Apr. 27	70	70	70	70	70	70	70	25	25	60	60	35	35	50	50	70	25	
Aug. 1	55	55	55	55	55	55	55	25	25	45	45	35	35	40	40	55	25	
Sept. 1	85	85	85	85	85	85	85	.....	.....	65	65	40	40	60	60	85		
Sept. 2	70	70	70	70	70	70	70	25	25	60	60	35	35	50	50	70	25	
Oct. 14	85	85	85	85	85	85	85	30	30	65	65	40	40	60	60	85	30	
1873—Jan. 14	75	75	75	75	75	75	75	30	30	60	60	40	40	50	50	75	30	
Apr. 14	65	65	65	65	65	65	65	25	25	55	55	35	35	45	45	65	25	
July 22	50	50	50	50	50	50	50	20	20	40	40	30	30	35	35	50	20	
Aug. 13	22	22	22	22	22	22	22	17	17	22	22	17	17	17	17	22	17	
1874—Jan. 1	60	60	60	60	60	60	60	25	25	50	50	30	30	40	40	60	25	
Aug. 1	45	45	45	45	45	45	45	20	20	40	40	30	30	35	35	45	20	
Dec. 24	85	85	85	85	85	85	85	.....	.....	65	65	40	40	60	60	85		
1875—Jan. 20	60	60	60	60	60	60	60	25	25	50	50	30	30	40	40	60	25	
Mar. 17	45	45	45	45	45	45	45	20	20	40	40	30	30	35	35	45	20	
Dec. 22	30	30	30	30	30	30	30	15	15	25	25	20	20	20	20	30	15	
1876—Jan. 10	45	45	45	45	45	45	45	20	20	40	40	30	30	35	35	45	20	
June 12	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25	16	
July 28	15	15	15	15	15	15	15	10	10	15	15	10	10	15	15	15	10	
Aug. 7	25	25	25	25	25	25	25	16	16	25	25	16	16	25	25	25	16	
Dec. 18	40	40	40	40	40	40	40	20	20	35	35	25	25	30	30	40	20	
1877—Mar. 12	45	45	45	45	45	45	45	20	20	40	40	30	30	35	35	45	20	
Oct. 8	45	45	45	45	45	45	24	24	24	40	40	24	24	24	24	45	24	
Oct. 22	60	60	60	60	60	60	26	26	26	50	50	26	26	26	26	60	26	
Dec. 10	60	60	60	60	60	60	26	26	26	44	44	26	26	26	26	60	26	
1878—Feb. 14	43	43	43	43	43	43	23	23	23	35	35	23	23	23	23	43	23	
Mar. 28	43	43	43	43	43	43	23	23	23	35	35	23	23	23	23	43	23	
1880—Jan. 1	43	43	43	43	43	43	23	23	23	35	35	23	23	23	23	43	23	
1881—Aug. 6	30	30	30	30	30	30	18	13	13	21	21	13	13	13	13	30	13	
1882—Jan. 24	39	39	39	39	39	39	18	18	18	32	32	18	18	18	18	39	18	
July 1	35	35	35	35	35	35	17	17	17	30	30	17	17	17	17	35	13	
Nov. 1	43	43	43	43	43	43	20	20	20	35	35	17	17	17	17	43	20	
1883—June 22	43	43	43	43	43	43	20	20	20	35	35	20	20	20	20	43	15	
1887—Apr. 1	39	28	39	39	33	28	16	19	13	33	33	19	16	19	13	39	19	
1888—Jan. 9	39	28	39	39	33	28	17	20	14	33	33	20	17	20	14	39	20	
Mar. 5	39	28	39	39	33	28	16	19	13	33	33	19	16	19	13	39	19	
1891—June 20	39	28	39	39	33	28	16	19	13	19	13	19	13	19	13	39	19	

FROM NEW YORK, N. Y., TO ROCHESTER, N. Y.

Boston, 412 miles; Philadelphia, 375 miles; Baltimore, 364 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																							
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
32	32	32	32	71	84	71	71	71	71	71	71	32	32	32	32	71	84	84	71	71	46	46
36	36	36	36	75	90	75	75	75	75	75	75	36	36	36	36	75	90	90	75	75	60	60
53	53	53	53	90	105	90	90	90	90	90	90	53	53	53	53	90	105	105	90	90	70	70
Special rate.		53	53	90	105	90	90	90	90	90	90	53	53	53	53	90	105	105	90	90	70	70
..do....		36	36	70	85	70	70	70	70	70	70	36	36	36	36	70	85	85	70	70	58	58
..do....		30	30	70	85	70	70	70	70	70	70	30	30	30	30	70	85	85	70	70	58	58
..do....		30	30	66	77	66	66	66	66	66	66	30	30	30	30	66	77	77	66	66	55	55
..do....		36	36	70	85	Special rate.		70	70	70	70	36	36	36	36	70	85	85	70	70	58	58
..do....		30	30	66	77	..do....		66	66	66	66	30	30	30	30	66	77	77	66	66	55	55
..do....		53	53	90	105	..do....		90	90	90	90	53	53	53	53	90	105	105	90	90	70	70
..do....		Special rate.		90	105	62	62	90	90	90	90	53	53	53	53	90	105	105	90	90	70	70
..do....		..do....		66	77	..do....		66	66	66	66	30	30	30	30	66	77	77	66	66	55	55
30	30	30	30	62	77	..do....		62	62	62	62	30	30	30	30	62	77	77	62	62	48	48
30	40	40	40	67	85	67	67	67	67	67	67	40	40	40	40	67	85	85	67	67	55	55
40	40	40	40	67	85	30	30	67	67	67	67	30	30	40	40	67	85	85	67	67	55	55
34	34	34	34	68	81	30	30	68	68	68	68	30	30	34	34	68	81	81	68	68	58	58
30	30	30	30	50	60	25	25	50	50	50	50	25	25	30	30	50	60	60	50	50	40	40
40	40	40	40	67	85	30	30	67	67	67	67	30	30	40	40	67	85	85	67	67	55	55
37	37	37	37	62	77	....	....	62	62	62	62	....	....	37	37	62	77	77	62	62	55	55
37	37	37	37	62	77	62	62	62	62	62	62	30	30	37	37	62	77	77	62	62	55	55
34	34	34	34	62	77	....	....	62	62	62	62	....	....	34	34	62	77	77	62	62	55	55
37	37	30	30	62	77	62	62	62	62	62	62	30	30	37	37	62	77	77	62	62	55	55
34	34	30	30	62	77	62	62	62	62	62	62	30	30	34	34	62	77	77	62	62	55	55
34	34	30	30	62	77	30	30	62	62	62	62	30	30	34	34	62	77	77	62	62	55	55
35	35	27	27	55	70	27	27	55	55	55	55	27	27	35	35	55	70	70	55	55	45	45
30	30	22	22	50	60	22	27	50	50	50	50	22	22	30	30	50	Spe'l rate.	30	50	50	40	40
30	30	20	20	40	50	20	20	40	40	40	40	20	20	30	30	40	.do.	30	40	40	35	35
30	30	20	20	40	45	20	20	40	40	40	40	20	20	30	30	40	.do.	30	40	40	35	35
22	22	22	22	45	55	22	22	45	45	45	45	22	22	30	30	45	.do.	30	45	45	40	40
20	20	20	20	40	45	20	20	40	40	40	40	20	20	30	30	40	.do.	30	40	40	35	35
37	37	....	....	62	77	....	....	62	62	62	62	....	....	37	37	62	.do.	37	62	62	55	55
30	30	22	22	45	55	22	22	45	45	45	45	22	22	30	30	45	.do.	30	45	45	40	40
30	30	20	20	40	45	20	20	40	40	40	40	20	20	30	30	40	.do.	30	40	40	35	35
37	37	....	....	62	77	....	....	62	62	62	62	....	....	37	37	62	.do.	37	62	62	55	55
20	20	15	55	25	30	15	15	25	25	25	25	15	15	20	20	25	.do.	20	25	25	20	20
30	30	20	20	40	45	20	20	40	40	40	40	20	20	30	30	40	.do.	30	40	40	35	35
30	30	20	20	40	45	20	20	40	40	40	40	30	30	30	30	40	.do.	30	40	40	35	35
30	30	20	20	40	45	20	20	40	40	40	40	20	20	30	30	40	.do.	30	40	40	35	35
22	22	22	22	40	45	22	22	22	22	40	40	22	22	22	22	40	.do.	22	40	22	22	22
24	24	24	24	45	55	24	24	24	24	45	45	24	24	24	24	45	.do.	24	45	24	24	24
24	24	24	24	40	55	24	24	24	24	40	40	24	24	24	24	40	.do.	24	40	24	24	24
20	20	20	20	30	40	20	20	20	20	30	30	20	20	20	20	30	.do.	20	30	20	20	20
13	13	13	13	21	30	13	13	13	13	21	21	13	13	13	13	21	.do.	13	21	13	13	13
18	18	18	18	32	39	18	18	18	18	32	32	18	18	18	18	32	.do.	18	32	18	18	18
13	13	17	17	30	35	17	17	17	17	30	30	17	17	17	17	30	.do.	17	30	17	17	17
19	16	19	13	33	39	19	16	26	19	23	19	19	13	19	16	33	23	16	19	16	23	16

TABLE 36.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 444 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.	Commodities (rates in cents per 100 pounds).																			
	Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar.	
										Castile and fancy.		Common.						
				Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.
1868—Oct. 2.....	55	55	55	55	55	55	55	Special rate.		53	53	33	33	46	46	55	Special rate	
Oct. 8.....	33	33	33	33	33	33	33	..do.....		33	33	33	33	33	33	33	..do..	
Nov. 2.....	71	71	71	71	71	71	71	..do.....		56	56	33	33	46	46	71	..do....	
Dec. 1.....	86	86	86	86	86	86	86	..do.....		71	71	33	33	56	56	86	..do....	
1869—May 12.....	86	86	86	86	86	86	86	..do.....		71	71	33	33	56	56	86	..do....	
Nov. 29.....	71	71	71	71	71	71	71	..do.....		56	56	36	36	46	46	71	..do..	
1870—May 7.....	71	71	71	71	71	71	71	..do.....		56	56	36	36	46	46	71	..do....	
July 13.....	52	52	52	52	52	52	52	..do.....		45	45	31	31	35	35	53	22	
July 28.....	38	38	38	38	38	38	38	..do.....		38	38	28	28	35	35	38	22	
Aug. 11.....	32	32	32	32	32	32	32	..do.....		32	32	28	28	33	33	22	22	
Aug. 15.....	32	32	32	32	32	32	32	..do.....		32	32	30	30	33	33	22	Special rate.	
Aug. 22.....	60	60	60	60	60	60	60	..do.....		50	50	31	31	40	40	60	..do..	
Aug. 24.....	59	59	59	59	59	59	59	..do.....		50	50	31	31	40	40	59	..do....	
Sept. 8.....	71	71	71	71	71	71	71	..do.....		56	56	36	36	46	46	71	..do....	
Nov. 29.....	71	71	71	71	71	71	71	..do.....		56	56	33	33	46	46	71	..do....	
Dec. 1.....	86	86	86	86	86	86	86	..do.....		71	71	33	33	56	56	86	..do....	
Dec. 26.....	86	86	86	86	86	86	86	33	33	71	71	33	33	56	56	86	33	
1871—Jan. 1.....	86	86	86	86	86	86	86	33	33	71	71	36	36	56	56	86	33	
Feb. 20.....	86	86	86	86	86	86	86	30	30	71	71	36	36	56	56	86	30	
Mar. 13.....	59	59	59	59	50	59	59	26	26	52	52	32	32	41	41	59	26	
Apr. 21.....	55	55	55	55	55	55	55	25	25	50	50	30	30	40	40	55	25	
May 18.....	45	45	45	45	45	45	45	22	22	40	40	27	27	32	32	45	22	
June 1.....	59	59	59	59	59	59	59	25	25	52	52	32	32	41	41	59	25	
June 15.....	45	45	45	45	45	45	45	22	22	40	40	26	26	32	32	45	22	
July 28.....	38	38	38	38	28	38	38	22	22	38	38	26	26	32	32	38	22	
Aug. 7.....	32	32	32	32	32	32	32	22	22	32	32	26	26	32	32	32	22	
Aug. 16.....	29	29	29	29	29	29	29	20	20	29	29	26	26	29	29	29	20	
Aug. 22.....	23	23	23	23	23	23	23	17	17	23	23	23	23	23	23	23	17	
Sept. 5.....	20	20	20	20	20	20	20	16	16	20	20	20	20	20	20	20	16	
Dec. 1.....	54	54	54	54	54	54	54	28	28	48	48	30	30	38	38	54	28	
Dec. 15.....	54	54	54	54	54	54	54	28	28	48	48	30	30	38	38	54	28	
1872—Jan. 1.....	54	54	54	54	54	54	54	23	23	48	48	30	30	38	38	54	23	
1872—Apr. 27.....	54	54	54	54	54	54	54	23	23	48	48	30	30	38	38	54	23	
Aug. 1.....	45	45	45	45	45	45	45	20	20	43	43	25	25	37	37	45	20	
Aug. 6.....	43	43	43	43	43	43	43	19	19	39	39	25	25	33	33	43	19	
Sept. 2.....	53	53	53	53	53	53	53	23	23	48	48	30	30	37	37	53	23	
Oct. 14.....	53	53	53	53	53	53	53	23	23	48	48	30	30	37	37	53	23	
Oct. 15.....	66	66	66	66	66	66	66	25	25	51	51	31	31	41	41	66	25	
Oct. 19.....	45	45	45	45	45	45	45	23	23	40	40	27	27	32	32	45	23	
Oct. 29.....	66	66	66	66	66	66	66	25	25	51	51	31	31	41	41	66	25	
1873—Apr. 14.....	55	55	55	55	55	55	55	20	20	51	51	27	27	41	41	55	20	
June 26.....	50	50	50	50	50	50	50	20	20	40	40	27	27	35	35	50	20	
July 22.....	45	45	45	45	45	45	45	20	20	40	40	27	27	35	35	45	20	
Aug. 2.....	44	44	44	44	44	44	44	18	18	36	36	26	26	31	31	44	18	
Aug. 11.....	38	38	38	38	38	38	38	18	18	36	36	26	26	28	28	38	18	
Aug. 13.....	35	35	35	35	35	35	35	18	18	35	35	26	26	28	28	35	18	
Aug. 16.....	33	33	33	33	33	33	33	18	18	33	33	25	25	25	25	33	18	
Aug. 20.....	29	29	29	29	29	29	29	18	18	29	29	22	22	22	22	29	18	
Sept. 17.....	45	45	45	45	45	45	45	20	20	40	40	27	27	35	35	45	20	
Sept. 18.....	40	40	40	40	40	40	40	18	18	35	35	27	27	30	30	40	18	
Sept. 22.....	40	40	40	40	40	40	40	18	18	35	35	27	27	30	30	40	18	
1874—Apr. 20.....	50	50	50	50	50	50	50	20	20	40	40	25	25	35	35	50	20	
July 31.....	40	40	40	40	40	40	40	18	18	35	35	25	25	30	30	40	18	
1875—Jan. 19.....	53	53	53	53	53	53	53	23	23	44	44	28	28	35	35	53	23	
Feb. 17.....	53	53	53	53	53	53	53	20	20	44	44	28	28	35	35	53	20	
Mar. 16.....	40	40	40	40	40	40	40	18	18	35	35	25	25	30	30	40	18	
June 21.....	28	28	28	28	28	28	28	16	16	23	23	16	16	19	19	28	16	
Aug. 12.....	35	35	35	35	35	35	35	14	14	25	25	18	18	22	22	35	14	
Aug. 13.....	35	35	35	35	35	35	35	15	15	25	25	20	20	22	22	35	15	
Nov. 15.....	26	26	26	26	26	26	26	16	16	23	23	24	24	22	22	26	16	
Dec. 22.....	27	27	27	27	27	27	27	14	14	23	23	16	16	16	16	27	14	

PHILADELPHIA, PA., TO PITTSBURG, PA.

Boston, 657 miles; Philadelphia, 354 miles; Baltimore, 333 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																							
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
Special rate.		33	33	53	55	53	53	53	53	53	53	33	33	33	33	53	55	55	53	53	46	46
..do....		....	....	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
..do....		....	....	56	71	56	56	56	56	56	56	33	33	33	33	56	71	71	56	56	46	46
..do....		....	....	71	86	71	71	71	71	71	71	33	33	33	33	71	86	86	71	71	56	56
..do....		....	....	71	86	Special rate.		71	71	71	71	33	33	33	33	71	86	86	71	71	56	56
..do....		36	36	56	71	..do....		56	56	56	56	36	36	36	36	56	71	71	56	56	46	46
..do....		Special rate.		56	71	..do....		56	56	56	56	36	36	36	36	56	71	71	56	56	46	46
..do....		..do....		45	52	..do....		45	45	45	45	31	31	31	31	45	52	52	45	45	35	35
..do....		..do....		38	38	..do....		38	38	38	38	28	28	28	28	38	38	38	38	38	25	25
..do....		..do....		32	32	..do....		32	32	32	32	28	28	28	28	32	32	32	32	32	32	32
..do....		..do....		32	32	..do....		32	32	32	32	30	30	30	30	32	32	32	32	32	32	32
..do....		..do....		50	60	..do....		50	50	50	50	31	31	31	31	50	60	60	50	50	40	40
..do....		..do....		50	59	..do....		50	50	50	50	31	31	31	31	50	59	59	50	50	40	40
..do....		..do....		56	71	..do....		56	56	56	56	36	36	36	36	56	71	71	56	56	46	46
..do....		..do....		56	71	..do....		56	56	56	56	33	33	33	33	56	71	71	56	56	46	46
..do....		..do....		71	86	..do....		71	71	71	71	33	33	33	33	71	86	86	71	71	56	56
33	33	33	33	71	86	71	71	71	71	71	71	33	33	33	33	71	86	86	71	71	56	56
36	36	36	36	71	86	71	71	71	71	71	71	36	36	36	36	71	86	86	71	71	56	56
36	36	36	36	71	86	30	30	71	71	71	71	30	30	36	36	71	86	86	71	71	56	56
32	32	32	32	52	59	26	26	52	52	52	52	26	26	32	32	52	59	59	52	52	41	41
30	30	30	30	50	55	25	25	50	50	50	50	25	25	30	30	50	55	55	50	50	40	40
27	27	27	27	40	45	22	22	40	40	40	40	22	22	27	27	40	45	45	40	40	32	32
32	32	32	32	52	59	25	25	52	52	52	52	25	25	32	32	52	59	59	52	52	41	41
26	26	26	26	40	45	22	22	40	40	40	40	22	22	26	26	40	45	45	40	40	32	32
26	26	26	26	38	38	22	22	38	38	38	38	22	22	26	26	38	38	38	38	38	32	32
26	26	26	26	32	32	22	22	32	32	32	32	22	22	26	26	32	32	32	32	32	32	32
26	26	26	26	29	29	20	20	29	29	29	29	20	20	26	26	29	29	29	29	29	29	29
23	23	23	23	23	23	17	17	23	23	23	23	17	17	23	23	23	23	23	23	23	23	23
20	20	20	20	20	20	16	16	20	20	20	20	16	16	20	20	20	20	20	20	20	20	20
30	30	30	30	48	54	28	28	48	48	48	48	28	28	30	30	48	54	54	48	48	38	38
30	30	30	30	48	54	48	48	48	48	48	48	28	28	30	30	48	54	54	48	48	38	38
30	30	30	30	48	54	48	48	48	48	48	48	23	23	30	30	48	54	54	48	48	38	38
30	30	33	33	48	54	48	48	48	48	48	48	23	23	30	30	48	54	54	48	48	38	38
25	25	20	20	43	45	43	43	43	43	43	43	20	20	25	25	43	45	45	43	43	37	37
25	25	19	19	39	43	39	39	39	39	39	39	19	19	25	25	39	43	43	39	39	33	33
30	30	23	23	48	53	48	48	48	48	48	48	23	23	30	30	48	53	53	48	48	37	37
30	30	23	23	48	53	23	23	48	48	48	48	23	23	30	30	48	53	53	48	48	37	37
31	31	25	25	51	66	25	25	51	51	51	51	25	25	31	31	51	66	66	51	51	41	41
27	27	23	23	40	45	23	23	40	40	40	40	23	23	27	27	40	45	45	40	40	32	32
31	31	25	25	51	66	25	25	51	51	51	51	25	25	31	31	51	66	66	51	51	41	41
27	27	20	20	51	55	20	20	51	51	51	51	20	20	27	27	51	Spec'l rate.	27	51	51	41	41
27	27	20	20	40	50	20	20	40	40	40	40	20	20	27	27	40	.do .	27	40	40	35	35
27	27	20	20	40	45	20	20	40	40	40	40	20	20	27	27	40	.do .	27	40	40	35	35
26	26	18	18	36	44	18	18	36	36	36	36	18	18	26	26	36	.do .	26	36	36	31	31
26	26	18	18	36	38	18	18	36	36	36	36	18	18	26	26	36	.do .	26	36	36	28	28
26	26	18	18	35	35	18	18	35	35	35	35	18	18	26	26	35	.do .	26	35	35	28	28
25	25	18	18	33	33	18	18	33	33	33	33	18	18	25	25	33	.do .	25	33	33	25	25
22	22	18	18	29	29	18	18	29	29	29	29	18	18	22	22	29	.do .	22	29	29	22	22
27	27	20	20	40	45	20	20	40	40	40	40	20	20	27	27	40	.do .	27	40	40	35	35
27	27	18	18	35	40	18	18	35	35	35	35	18	18	27	27	35	.do .	27	35	35	30	30
25	25	18	18	35	40	18	18	35	35	35	35	18	18	25	25	35	.do .	25	35	35	30	30
25	25	20	20	40	50	20	20	40	40	40	40	20	20	25	25	40	.do .	25	40	40	35	35
25	25	18	18	35	40	18	18	35	35	35	35	18	18	25	25	35	.do .	25	35	35	30	30
28	28	23	23	44	53	23	23	44	44	44	44	23	23	28	28	44	.do .	28	44	44	35	35
25	25	20	20	44	53	20	20	44	44	44	44	20	20	25	25	44	.do .	25	44	44	35	35
25	25	18	18	35	40	18	18	35	35	35	35	18	18	25	25	35	.do .	25	35	35	30	30
16	16	16	16	23	23	16	16	23	23	23	23	16	16	16	16	23	.do .	16	23	23	19	19
18	18	14	14	25	35	14	14	25	25	25	25	14	14	18	18	25	.do .	18	25	25	23	23
20	20	15	15	25	35	15	15	25	25	25	25	15	15	20	20	25	.do .	20	25	25	23	23
24	24	16	16	32	32	16	16	32	32	32	32	16	16	24	24	32	.do .	24	32	32	26	26
18	18	14	14	23	23	14	14	23	23	23	23	14	14	18	18	23	.do .	18	23	23	18	18

TABLE 36.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 444 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.	Commodities (rates in cents per 100 pounds).																			
	Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar.	
										Castile and fancy.		Common.						
				Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.
1876—Jan. 10.....	36	36	36	36	36	36	36	16	16	32	32	24	24	32	32	36	16	16
June 3.....	36	36	36	36	36	36	36	16	16	32	32	20	20	28	28	36	16	16
June 12.....	22	22	22	22	22	22	22	14	14	22	22	14	14	22	22	22	14	14
Dec. 18.....	36	36	36	36	36	36	36	18	18	32	32	23	23	27	27	36	18	18
1877—Mar. 12.....	41	41	41	41	41	41	41	18	18	36	36	27	27	32	32	41	18	18
Apr. 7.....	42	42	42	42	42	42	42	19	19	39	39	27	27	34	34	42	19	19
Oct. 8.....	42	42	42	42	42	42	22	22	22	39	39	22	22	22	22	42	22	22
22.....	54	54	54	54	54	54	24	24	24	44	44	24	24	24	24	54	24	24
Dec. 10.....	54	54	54	54	54	54	24	24	24	38	38	24	24	24	24	54	24	24
1878—Feb. 15.....	37	37	37	37	37	37	21	21	21	29	29	21	21	21	21	37	21	21
1879—Jan. 1.....	37	37	37	37	37	37	21	21	21	29	29	21	21	21	21	37	21	21
1880—Jan. 1.....	37	37	37	37	37	37	21	21	21	29	29	21	21	21	21	37	21	21
1881—Aug. 6.....	30	30	30	30	30	30	13	13	13	21	21	13	13	13	13	30	13	13
Nov. 12.....	37	37	37	37	37	37	17	17	17	30	30	17	17	17	17	37	17	17
1882—Jan. 24.....	37	37	37	37	37	37	17	17	17	30	30	17	17	17	17	37	17	17
June 28.....	33	33	33	33	33	33	16	16	16	28	28	16	16	16	16	33	16	16
July 1.....	33	33	33	33	33	33	16	16	16	28	28	16	16	16	16	33	12	12
Nov. 1.....	37	37	37	37	37	37	18	18	18	29	29	18	18	18	18	37	18	18
1883—June 23.....	37	37	37	37	37	37	18	18	18	29	29	18	18	18	18	37	13	13
1884—Jan. 1.....	37	37	37	37	37	37	18	18	18	29	29	18	18	18	18	37	13	13
1885—Jan. 26.....	21	21	21	21	21	21	13	13	13	16	16	12	13	13	13	21	10	10
June 1.....	20	20	20	20	20	20	11	11	11	16	16	11	11	11	11	20	9	9
Oct. 1.....	29	29	29	29	29	29	13	13	13	24	24	13	13	13	13	29	10	10
Nov. 18.....	37	37	37	37	37	37	18	18	18	29	29	18	18	18	18	37	13	13
1886—Jan. 21.....	37	37	37	37	37	37	18	18	18	29	29	18	18	18	18	37	13	13
1887—Apr. 1.....	39	39	39	39	33	28	16	19	13	33	33	19	16	16	13	39	19	13
July 15.....	39	39	39	39	33	28	16	19	13	33	33	19	16	16	13	39	19	13
1888—Jan. 9.....	39	39	39	39	33	28	18	21	14½	33	33	21	18	21	14½	39	21	14½
Mar. 5.....	39	39	39	39	33	28	16	19	13	33	33	19	16	19	13	39	19	13
Nov. 14.....	24	24	24	24	19	19	13	16	10	19	19	16	13	16	10	24	16	10
Dec. 17.....	39	39	39	39	33	28	16	19	13	33	33	19	16	19	13	39	19	13
1891—Apr. 9.....	39	39	39	39	33	16	13	19	13	33	33	19	13	19	13	39	19	13
June 20.....	39	39	39	39	33	16	13	19	13	19	13	19	13	19	13	39	19	13

PHILADELPHIA, PA., TO PITTSBURG, PA.—Continued.

Boston, 657 miles; Philadelphia, 354 miles; Baltimore, 333 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																					
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
24	24	16	16	32	32	16	16	32	32	32	32	16	16	24	24	32	Sp'l rate.	24	32	32	28	28
20	20	16	16	32	32	16	16	32	32	32	32	16	16	20	20	32	.do.	20	32	32	28	28
14	14	14	14	22	22	14	14	22	22	22	22	14	14	14	14	22	.do.	14	22	22	22	22
23	23	18	18	32	32	18	18	32	32	32	32	18	18	23	23	32	.do.	23	32	32	27	27
27	27	18	18	36	36	18	18	36	36	36	36	18	18	27	27	36	.do.	27	36	36	32	32
27	27	19	19	39	39	19	19	39	39	39	39	19	19	27	27	39	.do.	27	39	39	34	34
22	22	22	22	39	39	22	22	22	22	39	39	22	22	22	22	....	.do.	22	39	22	22	22
24	24	24	24	44	44	24	24	24	24	44	44	24	24	24	24	44	.do.	24	44	24	24	24
24	24	24	24	38	38	24	24	24	24	38	38	24	24	24	24	38	.do.	24	38	24	24	24
21	21	21	21	29	29	21	21	21	21	29	29	21	21	21	21	29	.do.	21	29	21	21	21
21	21	21	21	29	29	21	21	21	21	29	29	21	21	21	21	29	.do.	21	29	21	21	21
21	21	21	21	29	29	21	21	21	21	29	29	21	21	21	21	29	.do.	21	29	21	21	21
13	13	13	13	21	21	13	13	13	13	21	21	13	13	13	13	21	.do.	13	21	13	13	13
17	17	17	17	30	30	17	17	17	17	30	30	17	17	17	17	30	.do.	17	30	17	17	17
17	17	17	17	30	30	17	17	17	17	30	30	17	17	17	17	30	.do.	17	30	17	17	17
16	16	16	16	28	28	16	16	16	16	28	28	16	16	16	16	28	.do.	16	28	16	16	16
12	12	16	16	28	28	16	16	16	16	28	28	16	16	16	16	28	.do.	16	28	16	16	16
18	18	18	18	29	29	18	18	18	18	29	29	18	18	18	18	29	.do.	18	29	18	18	18
18	18	18	18	29	29	18	18	18	18	29	29	18	18	18	18	29	.do.	18	29	18	18	18
18	18	18	18	29	29	18	18	18	18	29	29	18	18	18	18	29	.do.	18	29	18	18	18
13	13	13	13	16	16	13	13	13	13	16	16	13	13	13	13	16	.do.	13	16	13	13	13
11	11	11	11	16	16	11	11	11	11	16	16	11	11	11	11	16	.do.	11	16	11	11	11
13	13	13	13	24	24	13	13	13	13	24	24	13	13	13	13	24	.do.	13	24	13	13	13
18	18	18	18	29	29	18	18	18	18	29	29	18	18	18	18	29	.do.	18	29	18	18	18
18	18	18	18	29	29	18	18	18	18	29	29	18	18	18	18	29	.do.	18	29	18	18	18
19	16	19	19	33	33	19	16	28	19	28	19	19	13	19	16	33	28	16	19	16	28	16
19	16	19	13	33	33	19	16	28	19	28	19	19	13	19	16	33	28	16	19	16	28	16
21	18	21	14½	33	33	21	18	28	21	28	21	21	14½	21	18	33	28	18	21	18	28	18
19	16	19	13	33	33	19	16	28	19	28	19	19	13	19	16	33	28	16	19	16	28	16
16	13	16	10	19	19	16	13	19	16	19	16	16	10	16	13	19	19	13	16	13	19	13
19	16	19	13	33	33	19	16	28	19	28	19	19	13	19	16	33	28	16	19	16	28	16
19	16	19	13	33	33	19	16	28	19	28	19	19	16	13	16	33	28	16	19	16	28	16
19	16	19	13	33	33	19	16	28	19	28	19	19	16	13	16	33	28	16	19	16	28	16

TABLE 36.—RATES OF FREIGHT, ALL RAIL, FROM

DISTANCE VIA SHORTEST ROUTE.—From New York, 444 miles;

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.	Commodities (rates in cents per 100 pounds).																		
	Dry goods.	Cotton piece goods.	Boots and shoes.	Furniture.		Stoves.		Coffee.		Soaps.				Starch.		Tea.	Sugar.	
										Castile and fancy.		Common.						
				Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.
1876—Jan. 10	36	36	36	36	36	36	36	16	16	32	32	24	24	28	28	36	16	16
June 3	36	36	36	36	36	36	36	16	16	32	32	20	20	28	28	36	16	16
June 12	22	22	22	22	22	22	22	14	14	22	22	14	14	22	22	28	14	14
Dec. 18	36	36	36	36	36	36	36	18	18	32	32	23	23	27	27	36	18	18
1877—Mar. 12	41	41	41	41	41	41	41	18	18	36	36	27	27	32	32	41	18	18
Apr. 7	42	42	42	42	42	42	42	19	19	39	39	27	27	34	34	43	19	19
Oct. 8	42	42	42	42	42	42	22	22	22	39	39	22	22	22	22	42	22	22
22	54	54	54	54	54	54	24	24	24	44	44	24	24	24	24	54	24	24
Dec. 10	54	54	54	54	54	54	24	24	24	38	38	24	24	24	24	54	24	24
1878—Feb. 15	37	37	37	37	37	37	21	21	21	29	29	21	21	21	21	37	21	21
1879—Jan. 1	37	37	37	37	37	37	21	21	21	29	29	21	21	21	21	37	21	21
1880—Jan. 1	37	37	37	37	37	37	21	21	21	29	29	21	21	21	21	37	21	21
1881—Aug. 6	30	30	30	30	30	30	13	13	13	21	21	13	13	13	13	30	13	13
Nov. 12	37	37	37	37	37	37	17	17	17	30	30	17	17	17	17	37	17	17
1882—Jan. 24	37	37	37	37	37	37	17	17	17	30	30	17	17	17	17	37	17	17
June 28	33	33	33	33	33	33	16	16	16	28	28	16	16	16	16	33	16	16
July 1	33	33	33	33	33	33	16	16	16	28	28	16	16	16	16	33	12	12
Nov. 1	37	37	37	37	37	37	18	18	18	29	29	18	18	18	18	37	18	18
1883—June 23	37	37	37	37	37	37	18	18	18	29	29	18	18	18	18	37	13	13
1884—Jan. 1	37	37	37	37	37	37	18	18	18	29	29	18	18	18	18	37	13	13
1885—Jan. 26	21	21	21	21	21	21	13	13	13	16	16	13	13	13	13	21	10	10
June 1	20	20	20	20	20	20	11	11	11	16	16	11	11	11	11	20	9	9
Oct. 1	29	29	29	29	29	29	13	13	13	24	24	13	13	13	13	29	10	10
Nov. 18	37	37	37	37	37	37	18	18	18	29	29	18	18	18	18	37	13	13
1886—Jan. 21	37	37	37	37	37	37	18	18	18	29	29	18	18	18	18	37	13	13
1887—Apr. 1	39	39	39	39	33	28	16	19	13	33	33	19	16	16	13	39	19	13
July 15	39	39	39	39	33	28	16	19	13	33	33	19	16	16	13	39	19	13
1888—Jan. 9	39	39	39	39	33	28	18	21	14½	33	33	21	18	21	14½	39	21	14½
Mar. 5	39	39	39	39	33	28	16	19	13	33	33	19	16	19	13	39	19	13
Nov. 14	24	24	24	24	19	19	13	16	10	19	19	16	13	16	10	24	16	10
Dec. 17	39	39	39	39	33	28	16	19	13	33	33	19	16	19	13	39	19	13
1891—Apr. 9	39	39	39	39	33	16	13	19	13	33	33	19	13	19	13	39	19	13
June 20	39	39	39	39	33	16	13	19	13	19	13	19	13	19	13	39	19	13

PHILADELPHIA, PA., TO PITTSBURG, PA.—Continued.

Boston, 657 miles; Philadelphia, 354 miles; Baltimore, 333 miles.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																							
Molasses.		Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.	Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
24	24	16	16	32	32	16	16	32	32	32	32	16	16	24	24	32	Sp'l rate.	24	32	32	28	28
20	20	16	16	32	32	16	16	32	32	32	32	16	16	20	20	32	.do.	20	32	32	28	28
14	14	14	14	22	22	14	14	22	22	22	22	14	14	14	14	22	.do.	14	22	22	22	22
23	23	18	18	32	32	18	18	32	32	32	32	18	18	23	23	32	.do.	23	32	32	27	27
27	27	18	18	36	36	18	18	36	36	36	36	18	18	27	27	36	.do.	27	36	36	32	32
27	27	19	19	39	39	19	19	39	39	39	39	19	19	27	27	39	.do.	27	39	39	34	34
22	22	22	22	39	39	22	22	22	22	39	39	22	22	22	22	....	.do.	22	39	22	22	22
24	24	24	24	44	44	24	24	24	24	44	44	24	24	24	24	44	.do.	24	44	24	24	24
24	24	24	24	38	38	24	24	24	24	38	38	24	24	24	24	38	.do.	24	38	24	24	24
21	21	21	21	29	29	21	21	21	21	29	29	21	21	21	21	29	.do.	21	29	21	21	21
21	21	21	21	29	29	21	21	21	21	29	29	21	21	21	21	29	.do.	21	29	21	21	21
21	21	21	21	29	29	21	21	21	21	29	29	21	21	21	21	29	.do.	21	29	21	21	21
13	13	13	13	21	21	13	13	13	13	21	21	13	13	13	13	21	.do.	13	21	13	13	13
17	17	17	17	30	30	17	17	17	17	30	30	17	17	17	17	30	.do.	17	30	17	17	17
17	17	17	17	30	30	17	17	17	17	30	30	17	17	17	17	30	.do.	17	30	17	17	17
16	16	16	16	28	28	16	16	16	16	28	28	16	16	16	16	28	.do.	16	28	16	16	16
12	12	16	16	28	28	16	16	16	16	28	28	16	16	16	16	28	.do.	16	28	16	16	16
18	18	18	18	29	29	18	18	18	18	29	29	18	18	18	18	29	.do.	18	29	18	18	18
18	18	18	18	29	29	18	18	18	18	29	29	18	18	18	18	29	.do.	18	29	18	18	18
18	18	18	18	29	29	18	18	18	18	29	29	18	18	18	18	29	.do.	18	29	18	18	18
13	13	13	13	16	16	13	13	13	13	16	16	13	13	13	13	16	.do.	13	16	13	13	13
11	11	11	11	16	16	11	11	11	11	16	16	11	11	11	11	16	.do.	11	16	11	11	11
13	13	13	13	24	24	13	13	13	13	24	24	13	13	13	13	24	.do.	13	24	13	13	13
18	18	18	18	29	29	18	18	18	18	29	29	18	18	18	18	29	.do.	18	29	18	18	18
18	18	18	18	29	29	18	18	18	18	29	29	18	18	18	18	29	.do.	18	29	18	18	18
19	16	19	19	33	33	19	16	28	19	28	19	19	13	19	16	33	28	16	19	16	28	16
19	16	19	13	33	33	19	16	28	19	28	19	19	13	19	16	33	28	16	19	16	28	16
21	18	21	14½	33	33	21	18	28	21	28	21	21	14½	21	18	33	28	18	21	18	28	18
19	16	19	13	33	33	19	16	28	19	28	19	19	13	19	16	33	28	16	19	16	28	16
16	13	16	10	19	19	16	13	19	16	19	16	16	10	16	13	19	19	13	16	13	19	13
19	16	19	13	33	33	19	16	28	19	28	19	19	13	19	16	33	28	16	19	16	28	16
19	16	19	13	33	33	19	16	28	19	28	19	19	16	13	16	33	28	16	19	16	28	16
19	16	19	13	33	33	19	16	28	19	28	19	19	16	13	16	33	28	16	19	16	28	16

RATES FROM THE SEABOARD VIA RAIL AND LAKE ROUTES.

The season of navigation upon the Great Lakes usually extends from April 1 to November 30 of each year. During this period from 17 to 20 per cent of the traffic from the seaboard to points beyond the western termini of the trunk lines is transported by the routes operating via the lakes. Such traffic is carried by the rail lines to Ogdensburg and Buffalo, N. Y., and Erie, Pa., thence via the lakes to Toledo, Detroit, Milwaukee, Chicago, and Duluth; at the latter points connection is again made with rail carriers, thus forming through routes to all principal competitive points in the West, Southwest, and Northwest.

Under long existing arrangements the rates via the rail-and-lake routes have been lower than those of the all-rail routes. The basis upon which these relations were established is not known for the entire period under consideration. Inferior facilities and longer time have been the principal disadvantages of the lake routes, in recognition of which the differential system of rates has been applied. With these rates, as in the case of the all-rail rates, New York to Chicago are the standard points on which tariffs are constructed. The differences existing in the all-rail and lake-and-rail rates between New York and Chicago represent the difference between the rates of these respective routes from other seaboard points to the West generally. These differences for several years have been as follows:

TABLE 37.—WEST BOUND RAIL AND LAKE RATES, NEW YORK TO CHICAGO.

Year.		Classes (in cents per 100 pounds).					
		1.	2.	3.	4.	5.	6.
1867	All rail	202	170	138	86	.....	.....
	Lake route	118	100	85	57	.....	.....
1868	All rail	188	160	127	82	.....	.....
	Lake route	126	106	91	60	.....	.....
1872	All rail	125	110	85	65	50	.....
	Lake route	87	77	60	46	35	.....
1893	All rail	75	65	50	35	30	25
	Lake route	54	47	37	27	23	20

The classes, it will be seen, correspond to those of the Official classification, and classified traffic via the lake routes has been taken for the years indicated under the classifications applying from the seaboard which were superseded by the Official.

The foregoing shows very large reductions, especially in the rates of the lower classes; articles formerly taken at fourth and fifth classes, at the rates of 45 and 35 cents, respectively, are now found in the three lower classes, namely, fourth, fifth, and sixth, at rates of 27, 23, and 20 cents per 100 pounds. It should also be remembered that the changes and reductions in the freight classifications have also operated to reduce the rates carried via the lake routes. The successive changes since 1867, so far as it has been possible to obtain them, are shown in tables to follow. Many of the articles covered by the classes have been and are still, from time to time, carried at commodity rates independently of the classification. In such instances the rates are invariably lower than the rates these articles would receive under the classifications.

TABLE 38.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC FROM NEW YORK TO CHICAGO, VIA LAKE AND RAIL LINES, FROM MAY 6, 1867, GOVERNED BY OFFICIAL CLASSIFICATION.

	Classes (in cents per 100 pounds).						
	1.	2.	3.	4.	5.	6.	Special.
1867—May 6	118	100	85	57	.....	.....	.....
Nov. 5	127	106	87	58	.....	.....	.....
1868—Apr. 8	126	106	91	60	.....	.....	.....
June 4	117	100	86	57	.....	.....	.....
June 9	117	100	85	57	.....	.....	.....
Aug. 10	94	80	76	57	.....	.....	.....
Sept. 1	117	100	85	57	.....	.....	38
1869—Apr. 16	100	100	85	57	.....	.....	38
July 1	117	100	85	57	.....	.....	38
Nov. 1	100	90	70	57	.....	.....	35
1870—Apr. 11	106	91	70	57	.....	.....	38
1872—Apr. 27	87	77	60	46	.....	.....	35
Aug. 1	51	48	40	31	.....	.....	24
Oct. 14	87	77	60	46	.....	.....	35
Oct. 25	87	77	60	45	.....	.....	35
1873—Apr. 14	70	63	53	42	.....	.....	32
1877—Oct. 22	70	63	53	31	.....	.....	.....
1878—May 20	51	41	34	27	.....	.....	.....
Oct. 24	54	44	37	30	.....	.....	.....
1879—Apr. 28	54	44	37	30	.....	.....	.....
1880—Apr. 2	54	44	37	30	.....	.....	.....
1881—May 2	54	44	37	30	.....	.....	.....
1882—July 1	44	37	30	23	20	.....	.....
Nov. 1	54	44	34	27	.....	.....	.....
1883—Apr. 25	54	44	34	27	.....	.....	.....
June 22	54	44	34	27	.....	.....	20
1884—Apr. 21	54	44	34	27	.....	.....	20
1885—Apr. 27	37	30	23	20	15	.....	.....
June 1	30	23	20	15	13	.....	.....
Oct. 5	44	37	30	20	17	.....	.....
Nov. 18	54	44	34	27	20	.....	.....
1886—Apr. 12	54	44	34	27	20	.....	.....
1887—Apr. 5	54	47	37	27	23	20	.....
1888—Apr. 6	54	47	37	27	23	20	.....
May 14	44	39	31	23	19	16	.....
Oct. 13	51	45	35	24	20	17	.....
1889—Apr. 8	54	47	37	27	23	20	.....
1890—Apr. 7	54	47	37	27	23	20	.....
1891—Apr. 15	54	47	37	27	23	20	.....
1892—Apr. 18	54	47	37	27	23	20	.....

By the standard lines the same rates apply from Boston and adjacent territory. From Philadelphia and Baltimore somewhat lower rates are made, and certain routes from New York and Boston are allowed differential rates, which are lower than the lowest rates of the standard lake routes. By such differential lines the rates are upon an extremely low basis, as will be seen by reference to the following rates of a differential line from Boston to Chicago:

TABLE 39.—RATES VIA DIFFERENTIAL LINE.

Class.	Cents per 100 pounds.					
	1887.	1888.	1889.	1890.	1891.	1892.
1	44	27	44	44	36	41
2	39	24	39	39	31	36
3	31	19	31	31	24	29
4	23	15	23	23	18	21
5	19	14	20	20	15	19
6	16	15	18	18	15	17
Boots and shoes	.....	30	.....	.....	25	30
Dry goods	.....	30	.....	.....	22	25
Binder's twine	.....	17½	15	.....	13	15
Caustic soda and soda ash	.....	13	13	13	12	14
Sugar	.....	13	.....	13	12	16
Canned goods	.....	.....	.....	.....	12	.....
Jute butts	.....	.....	.....	.....	.....	15
Flax	.....	.....	.....	.....	.....	15

The foregoing are representative of the very low basis that would be charged to other Western points the rates to which are made relatively higher than the Chicago rates.

RATES VIA THE CANAL AND LAKE ROUTES.

Another through route largely patronized by the public is that from New York via the Erie Canal to Buffalo, thence via the lake lines to Toledo, Detroit, Chicago, Milwaukee, and the West. The scale of rates in effect during the last season by this route to Chicago was as follows:

TABLE 40.—LAKE-CANAL RATES NEW YORK TO CHICAGO, 1892.

Classes.	Cents per 100 pounds.
1	[illegible]
2	[illegible]
3	[illegible]
4	[illegible]
5	[illegible]
6	[illegible]

From Boston certain carriers operate through lines, connecting with the Erie Canal at points in eastern New York State, thence to Buffalo via canal, in connection with lake lines to the West. By this line the rates of the past season from Boston to Chicago were:

TABLE 41.—LAKE AND CANAL RATES FROM BOSTON.

Classes.	Cents per 100 pounds.
1	[illegible]
2	[illegible]
3	[illegible]
4	[illegible]
5	[illegible]
6	[illegible]

The traffic seeking these routes is mainly composed of heavy or bulky articles, usually found in the lower classes of the classification or carried at commodity rates. There is no data at this time available to show the decline of the rates by these routes.

Nearly all of the points covered by the foregoing statements of commodity rates may be reached by the lake and rail and canal routes, which are open to the public, during the summer months of each year and at a scale of charges much lower than the rates of the all-rail routes as given in the tables referred to.

CLASSIFED RATES VIA ALL-RAIL ROUTES CHICAGO TO NEW YORK.

It has been shown with respect to westward rates from the seaboard that New York and Chicago are taken as the standard points or basis upon which rates to other Western points are computed. The same general plan is observed with regard to the rates eastward from Chicago and other Western points to the Atlantic seaboard. The present rates

by the standard routes from Chicago to the various Eastern cities are as follows:

TABLE 42.—EAST BOUND RATES—ALL-RAIL.

Chicago to—	Classes (in cents per 100 pounds).					
	1.	2.	3.	4.	5.	6.
Boston	82	71	55	39	33	27
New York	75	65	50	35	30	25
Philadelphia	78	68	48	33	28	23
Baltimore	72	62	47	32	27	22

The Chesapeake and Ohio route, owing to its longer distance, charges somewhat lower rates.

With the tables presenting the westward rates from New York to Chicago it was fully explained how the charges to other western points are made by the percentage basis, and also that when the rates New York to Chicago are changed, similar changes are made from the seabord to western points generally. The same plan is applied when making rates from Chicago and other western points to the seaboard cities and points in the vicinity thereof, the rates to which are made with regard to the seaboard rates. When a change is made in the Chicago rates, all other points are similarly affected. Therefore a statement of the changes in the rates from Chicago to New York will serve to illustrate the changes which have taken place from other western points to the seaboard cities. Such a table here follows, showing the class rates from 1871 up to the present time.

During the period covered there have been several changes in the character of the classification which applied to these rates. Prior to 1880 it is shown that the traffic was confined to 4 classes; from 1880 to 1887 the traffic was distributed among eleven or twelve classes, and subsequent to 1887 the classification governing provided for six classes only. Since 1887 the rates for all classes are shown to be on a considerably lower basis than prior to that year. This result was brought about by the adjustment at that time, by which the rates, both eastward and westward, were made alike, and further by the adoption of the Official classification for eastward traffic.

It is again mentioned that similar reductions were made from all points north of the Ohio, east of the Mississippi, and west of Buffalo and Pittsburg, to the principal seaboard points, and, further, that traffic originating west of the territory indicated has also received the benefit of these lower rates.

TABLE 43.—FREIGHT RATES CHARGED FOR THE TRASPORTATION OF CLASSIFIED TRAFFIC FROM CHICAGO, ILL., TO NEW YORK, N. Y., FROM OCTOBER 22, 1871.

Date.	Rates in cents per 100 pounds.											
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
1871—Oct. 22	160	125	85	65								
1872—Mar. 26	160	125	85	60								
May 1	160	125	85	50								
Aug. 26	160	125	85	45								
Sept. 2	160	125	85	50								
Sept. 9	160	125	85	60								
Sept. 16	160	125	85	60								
Oct. 14	160	125	85	65								
1873—Apr. 14	160	125	85	60								
Apr. 29	160	125	85	50								
May 20	160	125	85	45								
Sept. 5	160	125	85	50								
Sept. 15	160	125	85	55								
Dec. 8	160	125	85	60								
1874—Feb. 3	160	125	85	55								
Feb. 16	160	125	85	50								
Mar. 9	160	125	85	45								
Mar. 18	160	125	85	40								
Apr. 20	150	110	70	40								
Apr. 27	150	110	80	40								
May 6	150	110	80	45								
Oct. 1	150	110	80	40								
Nov. 24	150	110	85	45								
Dec. 1	150	110	85	45								
Dec. 11	150	110	85	40								
1875—Oct. 1	150	110	85	35								
Oct. 11	150	110	85	40								
Oct. 13	150	110	85	40								
Dec. 1	150	110	85	45								
Dec. 20	150	110	85	50								
1876—Oct. 1	150	110	85	40								
Mar. 1	150	110	85	50								
Mar. 10	150	110	85	45								
Apr. 1	150	110	85	45								
Apr. 17	150	110	85	40								
Dec. 18	150	110	85	35								
1877—Jan. 1	150	110	85	40								
Jan. 15	150	110	85	45								
Feb. 12	150	110	85	40								
Apr. 9	150	110	85	35								
Apr. 30	150	110	85	40								
July 2	150	110	85	35								
Oct. 17	150	110	85	40								
1878—Feb. 11	150	110	85	30								
Apr. 1	120	90	70	30								
May 17	120	90	70	25								
Aug. 5	120	90	70	30								
Sept. 2	120	90	70	35								
Nov. 25	120	90	70	40								
1879—Mar. 24	120	90	70	25								
June 9	120	90	70	20								
June 23	120	90	70	25								
Aug. 4	120	90	70	30								
Aug. 25	90	70	50	25								
Oct. 1	120	90	70	35								
Oct. 13	120	90	70	40								
Nov. 10	120	90	70	45								
1880—Mar. 8 (new classification)												
Mar. 8	120	90	70	60	50	45	45	35	35	30	50	
Apr. 1	120	90	70	60	50	45	45	35	35	30	50	
Apr. 14	120	90	70	60	50	45	35	30	35	30	40	
Nov. 1	120	90	70	60	50	45	35	30	35	35	40	
Nov. 22	120	90	70	60	50	45	40	35	35	35	45	
1881—Mar. 7	120	90	70	60	50	45	40	35	45	35	45	
Apr. 1	120	90	70	60	50	45	35	30	40	30	45	
Apr. 11	120	90	70	60	50	45	35	25	40	30	45	
Apr. 18	120	90	70	60	50	45	35	30	40	30	45	
May 9	100	85	70	60	50	45	35	30	40	30	45	
June 8	100	85	70	60	50	45	30	25	35	30	45	
June 15	100	85	70	60	50	45	35	30	30	30	45	
1882—Jan. 23	100	85	70	60	50	45	35	30	30	35	45	
Mar. 13	100	85	70	60	50	45	30	25	35	30	45	
Nov. 1	100	85	70	60	50	45	30	25	35	35	45	
Dec. 1	100	85	70	60	50	45	35	30	40	35	45	
1883—Apr. 1	100	85	70	60	50	45	35	30	40	30	45	
Apr. 19	100	85	70	60	50	45	35	25	40	30	45	
Apr. 28	100	85	70	60	50	45	30	25	35	30	45	
Nov. 1	100	85	70	60	50	45	30	25	35	30	45	
Nov. 26	100	85	70	60	50	45	35	30	35	30	45	
1884—Jan. 5	100	85	70	60	50	45	35	30	35	30	45	

TABLE 43.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC FROM CHICAGO, ILL., ETC.—Continued.

Date.	Rates in cents per 100 pounds.											
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.
1884—Jan. 14	100	85	70	60	50	45	35	30	40	35	45	....
Mar. 14	100	85	70	60	50	45	25	20	30	35	45	....
Mar. 21	100	85	70	60	50	45	20	15	25	35	45	....
Apr. 1	100	85	70	60	50	45	20	15	25	30	45	....
June 24	100	85	70	60	50	45	25	25	30	30	45	....
July 21	100	85	70	60	50	45	30	25	35	30	45	....
Nov. 1	100	85	70	60	50	45	30	25	35	35	....	....
Dec. 15	100	85	70	60	50	45	30	25	35	32	....	....
1885—Apr. 6	100	85	70	60	50	45	40	35	30	25	30	25
Nov. 1	100	85	70	60	50	45	40	35	30	25	35	25
Nov. 23	100	85	70	60	50	45	40	35	30	25	35	30
Dec. 21	100	85	70	60	50	45	40	35	30	25	35	30
1886—Jan. 15	100	85	70	60	50	45	40	35	30	25	30	30
Apr. 1	100	85	70	60	50	45	40	35	30	25	25	30
Nov. 1	100	85	70	60	50	45	40	35	30	25	30	30
Dec. 20	100	85	70	60	50	45	40	35	30	25	30	35
Dec. 27	100	85	70	60	50	45	40	35	35	30	30	35
1887—Apr. 1 (new Official classification)	....	....	....	....	....	....	....	....	....	....	....	....
Apr. 1	75	65	50	35	30	25	....	....	....	....	....	....
1888—Jan. 9	75	65	50	38½	33	27½	....	....	....	....	....	....
Mar. 5	75	65	50	35	30	25	....	....	....	....	....	....
Nov. 12	50	40	35	30	25	20	....	....	....	....	....	....
Dec. 17	75	65	50	35	30	25	....	....	....	....	....	....
1892—May 9	75	65	50	35	30	20	....	....	....	....	....	....
June 13	75	65	50	35	30	25	....	....	....	....	....	....

Data have been collected showing the tonnage movement of the classified traffic via the all-rail routes Chicago to New York taken under these rates, which is shown to have largely increased. A statement of such tonnage is below given, from which may be seen the volume of traffic affected by these rates. The statement covers only traffic originating at or passing through Chicago, and does not embrace the numerous other points east of the Mississippi River; the rates from which, as before explained, have been correspondingly reduced.

TABLE 44.—EAST BOUND TONNAGE.

	Tons.
1880	2,340,346
1881	2,871,100
1882	2,106,877
1883	2,257,703
1884	2,839,449
1885	3,187,023
1886	1,872,388
1887	2,210,043
1888	2,366,889
1889	2,462,664
1890	3,066,460
1891	2,556,624
1892	2,421,206

NOTE.—The foregoing does not include tonnage of livestock and dressed meats, for which see Table 54.

GRAIN RATES, ALL RAIL, CHICAGO TO NEW YORK.

The following table presents the changes which have taken place in the grain rates by the all-rail routes from Chicago to New York from 1864. The methods previously mentioned as to the manner of constructing rates from points other than Chicago to the seaboard apply also to this table, and the rates there shown may be accepted as representing the changes which have taken place from all competitive points east of the Mississippi River to the seaboard:

GRAIN RATES ALL RAIL, CHICAGO TO NEW YORK.

TABLE 45.—RATES IN CENTS PER 100 POUNDS CHARGED UPON GRAIN, ALL RAIL, FROM CHICAGO, ILL., TO NEW YORK, N. Y., FROM MARCH 28, 1864.

Date.	Rate.	Date.	Rate.	Date.	Rate.	Date.	Rate.
1864—Mar. 28	100	1867—Sept. 2	75	1875—Dec. 1	45	1884—Mar. 21	15
Apr. 4	90	Sept. 23	85	1876—Mar. 7	40	June 24	20
Apr. 12	80	1868—Sept. 1	60	Apr. 13	35	July 21	15
Apr. 14	75	Sept. 7	65	Apr. 26	22½	1885—Mar 10	20
July 11	80	Sept. 14	70	May 5	20	Nov. 23	15
July 22	85	Dec. 7	75	Dec. 18	30	1886—Dec. 20	15
July 28	80	1869—Jan. 25	70	1877—Jan. 2	35	1887—Mar. 23	20
Sept. 7	90	Mar. 11	50	Apr. 2	30	1888—Jan. 8	15
Sept. 10	95	1870—Jan. 22	55	Sept. 4	35	Mar. 8	20
Nov. 12	100	Mar. 4	50	Oct. 17	40	Oct. 10	15
Nov. 16	115	Mar. 22	45	1878—Mar. 11	30	Dec. 15	20
Nov. 28	125	May 23	40	Apr. 1	25	1889—July 13	20
Dec. 18	138	Aug. 29	45	May 17	20	Aug. 1:	
Dec. 24	160	Aug. 31	50	Aug. 5	25	Wheat	15
1865—Apr. 22	100	Oct. 31	55	Aug. 17	30	Corn	20
May 15	70	Nov. 22	60	Nov. 25	35	1890—May 12:	
Sept. 6	62½	1871—Mar. 4	50	1879—Mar. 24	20	Oats	15
Sept. 11	70	Apr. 7	45	June 9	15	May 26:	
Sept. 27	77½	June 26	40	June 23	22	Oats	20
Oct. 10	85	July 10	45	Aug. 4	25	June 9:	
Oct. 17	95	Aug. 11	50	Aug. 25	30	Grain, except corn, and oats	15
Oct. 27	105	Sept. 21	55	Oct. 13	35		
Nov. 2	115	Oct. 2	60	Nov. 10	40		
Nov. 7	120	Oct. 25	65	1880—Mar. 1	35		
Nov. 9	130	1872—Mar. 25	60	Apr. 14	30	1891—Nov. 24:	
1866—Jan. 9	80	May 1	50	Nov. 22	35	Grain, except corn	15
Feb. 26	70	Aug. 26	45	1881—Apr. 1	30		
May 11	55	Sept. 2	50	Apr. 11	25		
June 7	60	Sept. 9	55	Apr. 18	30	Dec. 29	20
July 5	65	Sept. 16	60	June 8	25	1892—May 9	15
Sept. 18	75	Oct. 14	65	June 15	15–20	June 13	20
Sept. 27	85	1873—Apr. 14	16	Sept. 26	12½–20	Oct. 10	15
Oct. 10	90	May 20	45	Oct. 10	12½–15		
Oct. 15	100	Sept. 5	50	Nov. 1	20		
Nov. 5	105	Nov. 20	55	Dec. 9	12½–20		
Dec. 8	90	Dec. 8	60	1882—Mar. 13	25		
1867—Feb. 7	80	1874—Feb. 3	55	Dec. 1	30		
Mar. 4	70	Apr. 15	40	1883—Apr. 19	25		
Mar. 22	60	May 6	45	Nov. 26	30		
Apr. 15	50	Dec. 11	40	1884—Jan. 5	20		
June 8	75	1875—Oct. 1	30	Jan. 14	30		
June 21	70	Oct. 12	40	Mar. 14	20		

GRAIN RATES VIA LAKE-AND-RAIL AND LAKE-AND-CANAL ROUTES CHICAGO TO THE SEABOARD.

Through routes are formed by the lake lines running to Buffalo and there connecting with the rail carriers, and also with the Erie Canal. Via each of these routes a large traffic is carried, destined to the seaboard. The principal shipments are wheat, corn, and other grains. Large reductions have been made in the rates by these routes. Herefollowing is given a statement showing the changes in the rates on wheat and corn from Chicago to New York from 1877, when forwarded by

routes operating via the lakes to Buffalo and thence via rail. A second table shows rates for a similar period on like commodities from Chicago to New York when taken by lake to Buffalo and thence via the canal.

These two tables are compiled from the reports of the Chicago Board of Trade, and are understood to cover the quotations of the prevailing rates for the period covered.

A third table, compiled from the tariffs of the Western Transit Company, a lake line operating from Chicago to Buffalo, which publishes through rates to the seaborad, shows changes in the rates on various grain articles from 1887. A comparison of the wheat rates for the seasons of 1887 and 1892 shows the former to have been 14 cents, while for the latter year it was 8 cents.

The fourth table following shows the average rates charged on wheat and corn when carried by canal from Buffalo to New York, for each month during the season of navigation, for the years 1856 and 1857 and from 1862, and also shows the highest rate during each year charged on wheat and the average for the season for the same commodity. The average season rate on wheat for the first year given upon the table is shown as 14.4 cents per bushel, while that for 1892 was 3.4 cents.

The rates from St. Louis to the seaboard are computed at 116 per cent of the rates from Chicago to New York. For the purpose of equalizing the rates via the various routes crossing the Mississippi River, it is agreed by the lines interested that the rates from St. Louis shall be applied at the other river crossings on such traffic as may originate at points west of the Mississippi River. Under this arrangement the rates upon such traffic to New York from Dubuque, Clinton, Rock Island, East Burlington, East Hannibal, and the other river crossings, are the same as from St. Louis. When changes occurred in the rates from Chicago, similar changes were made necessary from other western points on and east of the Mississippi River which are governed by the percentage basis. The rates upon grain and other traffic passing eastward via the Mississippi River points named would be correspondingly changed.

While a more extended reference might be made to the influences which operate to reduce the grain rates by the various routes from Chicago, this appears unnecessary, as the tables present a very full history of the reductions which have taken place.

TABLE 46.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF WHEAT THE OPENING OF THE SEASON

In effect during—	Rates in cents per bushel. Wheat.														
	1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	*1887	1888.	1889.	1890.	1891.
Apr.—First week	.....	12	.....	.....	.....	.....	11½	.....	.....	.....	.....	.....	.....	.....	9½
Second week	.....	12	.....	.....	.....	12½	12	.....	.....	.....	.....	.....	9½	9½	9½
Third week	.....	11	.....	17	.....	12½	12	.....	.....	.....	.....	.....	8½	9	9½
Fourth week	.....	10	.....	17	.....	10	12	12	.....	.....	.....	10½	8½	8½	9
Fifth week	.....	.....	.....	.....	.....	10½	.....	.....	.....	12	.....	.....	.....	.....	.....
May—First week	13	11	12½	16	15	10	11½	12	.....	12	.....	10½	8½	8½	9½
Second week	13	10½	12	15½	15	10	10½	11	9½	12	.....	10½	8½	8½	9½
Third week	13	10	11½	15	14½	9½	10	10	9½	12	.....	10½	8½	8½	9½
Fourth week	12½	9	11½	12½	13½	9½	10	10	8½	12	.....	10½	8½	8½	9½
Fifth week	.....	.....	11½	15	.....	.....	.....	10	8	.....	.....	.....	.....	8½	9½
June—First week	13	8½	11	15½	11	9	10	10	7½	12	.....	10½	8½	8½	9½
Second week	13	9	10½	16	10½	9	10	10	7½	12	.....	10½	8½	8½	9½
Third week	13	9	10½	16	11	9	10½	10	7½	12	.....	10½	8½	8½	9½
Fourth week	13	9	9½	16	9½	9½	10	10	7½	12	.....	10½	8½	8½	9½
Fifth week	13	9	.....	.....	.....	.....	10½	.....	.....	.....	.....	10½	8½	.....	.....
July—First week	13	9	9	16	9½	9½	10	10	7½	12	.....	10½	8½	8½	9½
Second week	12	7½	8½	16	9	8½	9½	10	8½	12	.....	10½	8	8½	9½
Third week	12	7½	9	13½	8½	8½	9½	10	10½	12	.....	10½	8½	8½	9½
Fourth week	12	7½	9½	13½	7½	8½	10½	9	10½	12	.....	10½	8	8½	9½
Fifth week	.....	.....	.....	12	7	8½	.....	.....	9½	.....	.....	.....	.....	.....	.....
Aug.—First week	12	7½	10	13	6½	10	11	9	10½	12	.....	11	8	8½	9
Second week	12	7½	11	14½	6½	10	11½	9	9½	12	.....	11	8	8½	9½
Third week	12½	8	11	13	7½	9½	11½	10	9½	12	.....	11½	8½	8½	9½
Fourth week	12½	9½	11	12	8	9½	12	10	9½	12	.....	11½	8½	8½	9½
Fifth week	.....	11½	12	.....	.....	.....	.....	10	.....	.....	.....	.....	9	8½	9½
Sept.—First week	13	12	12	14½	8½	9½	12½	12	7½	12	.....	11½	9	8½	9½
Second week	13	12½	12	12	8½	9½	12½	11½	7½	12	.....	11½	9	8½	9½
Third week	14	13	13	12	8½	10	12½	10	7½	12	.....	12	9	8½	9½
Fourth week	16	14	14	12	7½	10	12½	9	7½	12	.....	12	9	8½	9½
Fifth week	16	.....	.....	.....	.....	10½	11½	.....	.....	.....	.....	12	.....	.....	.....
Oct. —First week	16	14	15	12	6½	10½	12½	9	7½	12	.....	11½	9	8½	9½
Second week	18	14½	15	12½	6	10	11½	9	7½	12	.....	11½	9½	8½	9½
Third week	18	14½	15	14	9½	10½	11	9	8½	12	.....	11	9½	8½	9½
Fourth week	18	14	15½	14	9½	10½	11½	10	10½	12	.....	11	9½	8½	9½
Fifth week	.....	.....	.....	14	9½	.....	.....	.....	10½	.....	.....	.....	.....	.....	.....
Nov.—First week	18	14	17½	14	9½	11	11½	11	10½	12	.....	11½	10½	8½	9½
Second week	17	13½	19	14	9½	10½	11½	9	11½	12	.....	11½	10½	8½	9½
Third week	17	13½	20	17	9½	11	11½	9	11½	12	.....	11½	9½	8½	9½
Fourth week	18	13½	19	17	.....	10½	11½	9	12½	12	.....	11	8½	8½	10
Fifth week	.....	14½	18½	.....	.....	.....	.....	9	.....	.....	.....	.....	.....	8½	.....
Dec. —First week	18½	.....	.....	.....	.....	10½	.....	.....	.....	.....	.....	.....	.....	.....	10

*No rates.

AND CORN FROM CHICAGO TO NEW YORK VIA LAKE AND RAIL ROUTES FROM OF NAVIGATION IN 1877.

Rates in cents per bushel.													
Corn.													
1877.	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	*1887.	1888.	1889.	1890.	1891.
.....	11½	.....	.....	.....	.....	11½	.....	.....	.....	.....	.....	.....	.....	7½
.....	11½	.....	.....	.....	11½	11½	.....	.....	.....	.....	.....	8½	8½	7½
.....	10½	.....	15	.....	11½	11½	.....	.....	.....	.....	.....	8	8	7½
.....	10	.....	15	.....	9½	11	11	.....	.....	.....	10	8	7½	7½
.....	.....	.....	.....	.....	10	.....	.....	.....	11½	.....	.....	.....	.....	.....
13	10	9	15	14	9½	10½	11	.....	11½	.....	9½	8	7½	7½
13	10	8½	14	14	9½	10	9	8½	11½	.....	9½	7½	7½	7½
13	10	10½	12½	13½	9	9½	9	8 7/16	11½	.....	9½	7½	7½	7½
11	8½	10½	11½	12½	9	9½	9	7 13/16	11½	.....	9½	7½	7½	7½
.....	.....	10	14	.....	.....	.....	9	7	.....	.....	.....	.....	7½	6½
12	8½	10	13½	9½	9	9½	9	6 9/16	11½	.....	9½	7½	7	6½
12	8½	9½	13½	11½	9	9½	8½	6½	11½	.....	9½	7½	7	6½
12	8½	9½	14½	10	9	9½	8½	6½	11½	.....	9½	7½	7½	6½
12	8	8½	14½	8½	9½	9½	8½	6½	11½	.....	9½	7½	7½	6½
12	8	.....	.....	.....	.....	9½	.....	.....	.....	.....	9½	7½	.....	.....
12	8	8½	15	8½	9½	9½	8½	6½	11½	.....	9½	7½	7½	6½
11	7	8	15	7½	8½	9	8½	7½	11½	.....	9½	7½	7½	6½
11	7	8	13	7	8½	9	8½	9½	11½	.....	10	7½	7½	6½
11	7	8½	13	6½	8	10	7	9½	11½	.....	10	7½	7½	6½
.....	.....	.....	12	5½	8½	.....	.....	8½	.....	.....	.....	.....	.....	.....
11	7	9	12½	5½	10	10½	7	9½	11½	.....	10½	7½	7½	7
11	7½	10	14	5½	10	10½	8	8½	11½	.....	10½	7½	7½	7½
11½	7½	10	14	6½	9½	10½	9	8 13/16	11½	.....	10½	7½	7½	8½
11½	8½	10	11	7½	9½	11½	9	8½	11½	.....	11	7½	7½	8½
.....	11	11	.....	.....	.....	.....	9	.....	.....	.....	.....	8½	7½	8½
12	11	11	14	7½	9½	11½	11	6½	11½	.....	11	8½	7½	8½
12	11½	11	11½	7½	9	11½	10	6½	11½	.....	11	8½	7½	8½
13	12	12	11½	7½	9½	11½	9	6½	11½	.....	11½	8½	7½	8½
15	13	13	11½	6½	9½	11½	8	6½	11½	.....	11½	8½	7½	8½
15	.....	.....	.....	.....	9½	10½	.....	.....	.....	.....	11½	.....	.....	.....
16	13	14	11	5½	9½	11	7½	6½	11½	.....	10½	8½	7½	8½
16	13½	14	11½	5	9½	10½	8	6½	11½	.....	10½	8½	7½	8½
16	13½	14	12	8½	9½	10½	8	7½	11½	.....	10½	8½	7½	7
16	13	14½	13	8½	10½	10½	8½	9½	11½	.....	10½	8½	7½	7
.....	.....	.....	13	8½	.....	.....	.....	9½	.....	.....	.....	.....	.....	7
16	13	16½	13	8½	10½	10½	10	9½	11½	.....	10½	9½	7½	8
16	12½	18	13	8½	10½	10½	8½	10½	11½	.....	10½	9½	7½	8½
16	12½	18	14	9	10	10½	8½	10½	11½	.....	10½	8½	7½	9
16	12½	17	16½	.....	10	10½	8½	11½	11½	.....	10½	7½	7½	9½
.....	13½	17½	.....	.....	.....	.....	8½	.....	.....	.....	.....	.....	7½	.....
16	.....	.....	.....	.....	10	.....	.....	.....	.....	.....	.....	.....	.....	9½

*No rates.

TABLE 47.— FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF WHEAT THE OPENING OF THE SEASON

	Rates in cents per bushel.													
	Wheat.													
	1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.
Apr.—First week	9½	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	8½	.....
Second week	9½	.....	12½	.....	.....	.....	.....	.....	.....	.....	.....	.....	7½	.....
Third week	9½	.....	12½	.....	9	.....	.....	.....	.....	.....	.....	.....	7½	.....
Fourth week	9½	.....	10½	.....	9	.....	.....	.....	.....	.....	.....	.....	8	.....
Fifth week	.....	.....	.....	.....	8½	.....	.....	.....	.....	10½	.....	.....	.....	.....
May —First week	9½	.....	9½	.....	8½	.....	7½	.....	.....	10½	.....	7½	8½	5½
Second week	9½	8½	10½	13	8	10	6½	.....	9 1/16	9½	5½	7½	8½	5
Third week	8	7½	10½	10½	8	7½	6½	5	9 1/16	8½	.....	7½	8½	4½
Fourth week	7½	7	11½	9½	7½	7½	.....	.....	8 1/16	8½	.....	6½	8½	4½
Fifth week	.....	6½	12½	.....	.....	.....	.....	.....	8 1/16	.....	.....	.....	8½	5½
June—First week	8½	6½	13	9½	7	7½	.....	.....	6 1/16	8½	.....	7½	8½	4½
Second week	8½	6½	14½	8½	7½	7½	.....	.....	6 1/16	10½	.....	7½	8½	4½
Third week	7½	6½	14½	9	8	7½	6½	.....	7 1/16	11	.....	6½	8½	5
Fourth week	7½	6½	14	7½	7	7	6½	.....	7 1/16	10½	.....	6½	7½	5½
Fifth week	6½	.....	.....	.....	.....	7½	.....	.....	.....	.....	.....	6½	.....	.....
July —First week	6½	7½	12½	8½	6½	6½	.....	.....	7½	9½	.....	6½	7	5½
Second week	6½	7½	12½	8	6½	6½	.....	.....	7½	8½	.....	6½	6½	4½
Third week	6½	8	10½	7½	7	6½	.....	.....	8	7½	.....	7½	6½	4½
Fourth week	7	9	10½	7½	7	7½	6½	2½	8	7½	6	6½	6½	.....
Fifth week	.....	.....	11	6½	7½	.....	.....	.....	.....	8½	.....	.....	.....	.....
Aug.—First week	7	9½	11½	6½	9	7½	6½	.....	9	8½	7½	6½	6	6
Second week	8	11	11½	6½	8	8½	6½	.....	9	8½	.....	7½	6½	6½
Third week	8	11½	11½	7½	7½	9	6½	.....	10	7½	8½	7½	6½	6½
Fourth week	11½	11½	11½	7½	8	9	7½	4½	12	8½	.....	7½	6½	6½
Fifth week	12½	12½	.....	.....	.....	.....	6½	.....	.....	.....	.....	8½	6½	6½
Sept.—First week	13½	12½	10½	8½	7½	10½	7½	.....	11½	8½	.....	8½	6½	6½
Second week	13½	13	11½	8½	8	11½	.....	8½	11	8½	8½	8½	6½	6½
Third week	14	14	11½	8½	8½	11½	.....	.....	11	8½	.....	8½	6½	6½
Fourth week	13½	14½	11½	7½	9	11½	7½	.....	10½	9	.....	8½	6½	6½
Fifth week	.....	.....	.....	.....	9	11	.....	.....	.....	.....	.....	.....	.....	.....
Oct. —First week	13½	15½	11½	8	9½	11	.....	.....	11	9	.....	8½	7	6½
Second week	14	15½	12½	8½	9½	10	.....	.....	10½	9½	.....	8½	6½	6½
Third week	13	17½	14	8½	10½	9½	.....	.....	10½	10½	.....	9	7½	6½
Fourth week	11½	18	14½	8½	10½	9½	.....	5½	9 1/16	10½	.....	8½	6½	6½
Fifth week	.....	.....	16½	8½	.....	.....	.....	.....	9½	.....	.....	.....	.....	.....
Nov.—First week	12½	19½	17	8	9½	9½	.....	.....	9 1/16	10½	.....	8½	6½	6½
Second week	11½	19	16	.....	10	9½	.....	.....	10 1/16	10½	.....	8½	6½	6½
Third week	12½	21	15½	.....	10½	.....	.....	.....	.....	12	.....	8	5½	6½
Fourth week	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	9½	5½	.....
Fifth week	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6½	.....
Dec. —First week	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

AND CORN FROM CHICAGO TO NEW YORK, VIA LAKE AND CANAL ROUTES FROM OF NAVIGATION OF 1878.

Rates in cents per bushel.													
Corn.													
1878.	1879.	1880.	1881.	1882.	1883.	1884.	1885.	1886.	1887.	1888.	1889.	1890.	1891.
8												8	
9		12½										7	
8½		11½		8½								6½	
8½		9½		8½								6½	
				7½						9½			
8½		8½		7½		6½				9½	6½	6	4½
9	7½	9½	11½	7½	9½	5½		8½	8½	6½	6½	6	4½
7	6½	9½	9½	7½	6½	5½		9½	8½	5½	6½	6	4
6½	6	10½	8½	6½	6½			8	8	6½	6½	5½	3½
	6	11½						8				6½	4½
7½	5½	12	8½	6½	6½			6	8½	5½	6½	6	4½
7½	6	13½	8½	6½	6½			5½	9½	9	6½	6½	4½
6½	6	13½	8	7½	6½	6		6½	10½	8½	6½	6½	4½
6	5½	12½	6½	6½	6½	5½	3½	6½	9½	4½	6	6½	4½
6					6½						6		
5½	6½	11½	7½	5½	6			6 7/10	8½	5	6	6½	4½
5½	6	11½	6½	6	6			6 7/10	8	4½	6	6	4½
6	7	9½	6½	6½	6			6½	7½	5½	6½	6	4½
6	8½	9½	6½	6½	6½	5½	3½	6½	7½		6½	5½	
		10	5½	6½				7½					
6½	8½	10½	5½	8½	7½	6		7½	7½		6½	5½	6
7	10½	10½	5½	7½	7½	5½		7½	7½		6½	5½	7
7	10½	10½	6½	7½	8½	6		8½	7½		6½	5½	6½
10½	11	10½	6½	7	8½	6½	4½	10½	8½		7½	5½	6½
11½	11½					6½	4½				7½	5½	6½
12½	11½	10	8½	7	9½	7	4½	10	8½		7½	5½	7
12½	12	10	7½	7½	10½		4	9½	8	7½	8	6½	7½
13	12½	10	8	8	10½			9½	8½		8	6	7½
11½	13	9½	6½	8½	10½	6½		10½	8½	7½	8½	6	7½
				8½	10½					7½			
11½	14	10½	5½	8½	10½			10½	8½		8	6½	7½
13	13½	11½	5½	9	9½			10½	8½	6½	8½	5½	6½
12	16½	12½	7½	9½	8½			10½	9½	6½	8½	5½	6½
10½	16½	13½	7½	9½	8½			8½	9½	6½	8½	6½	7
		14½	7½					9 3/10					7
10½	18½	15½	7	9½	9		5½	8½	9½	7½	8½	6½	7½
11	18½	14½		9	9			9½	9½		7½	5½	8½
11½	19	14½		9½					11½		7½	4½	8½
											7½	5½	
												6½	

TABLE 48—FREIGHT RATES IN CENTS PER BUSHEL AND THEIR EQUIVALENTS IN CENTS PER 100 POUNDS CHARGED FOR THE TRANSPORTATION OF GRAIN FROM CHICAGO TO NEW YORK, VIA LAKE TO BUFFALO, N. Y., AND THENCE VIA RAIL, DURING THE PERIOD COVERED BY THE RECORDS OF THE INTERSTATE COMMERCE COMMISSION.

Date.	Commodities (rates in cents).											
	Wheat.		Corn.		Rye.		Flaxseed.		Barley.		Oats.	
	Per bushel.	Per 100 pounds.	Per bushel.	Per 100 pounds.	Per bushel.	Per 100 pounds.	Per bushel.	Per 100 pounds.	Per bushel.	Per 100 pounds.	Per bushel.	Per 100 pounds.
1887—Apr. 18..	14.125	23.542	13.125	23.438	13.125	23.438	13.125	23.438	11.5	23.958	8.5	[illegible]
Apr. 28..	13.125	21.875	12.125	21.652	12.125	21.652	12.125	21.652	10.5	21.875	8	[illegible]
Apr. 30..	12	20	11.2	20	11.2	20	11.2	20	10	20.833	8	[illegible]
Oct. 7..	12.75	21.25	12	21.429	12	21.429	12	21.429	11	22.917	8.5	[illegible]
Oct. 25..	13.5	22.5	12.5	22.321	12.5	22.321	12.5	22.321	11.5	23.958	9	[illegible]
Oct. 31..	13.75	22.917	12.75	22.768	12.75	22.768	12.75	22.768	11.75	24.479	9.25	[illegible]
Nov. 4..	13.5	22.5	12.5	22.321	12.5	22.321	12.5	22.321	11.5	23.958	9	[illegible]
Nov. 7..	12.25	20.417	11.5	20.536	11.5	20.536	11.5	20.536	10.5	21.875	8	[illegible]
Nov. 19..	12.75	21.25	12	21.429	12	21.429	12	21.429	11	22.917	8.5	[illegible]
1888—Apr. 20..	10.75	17.917	10	17.857	10	17.857	10	17.857	9	18.75	6.75	[illegible]
May 5..	10.5	17.5	9.75	17.411	9.75	17.411	9.75	17.411	8.75	18.229	6.5	[illegible]
May 17..	10.25	17.083	9.5	16.964	9.5	16.964	9.5	16.964	8.5	17.708	6.5	[illegible]
Aug. 1..	11	18.333	10.5	18.75	10.5	18.75	10.5	18.75	9.5	19.792	7.25	[illegible]
Aug. 14..	11.5	19.167	10.75	19.196	10.75	19.196	10.75	19.196	9.75	20.313	7.5	[illegible]
Aug. 22..	11.75	19.583	11	19.643	11	19.643	11	19.643	10	20.833	7.75	[illegible]
Sept. 10..	12	20	11.25	20.089	11.25	20.089	11.25	20.089	10.25	21.354	8.25	[illegible]
Oct. 5..	11.5	19.167	10.75	19.196	10.75	19.196	10.75	19.196	9.75	20.313	7.75	[illegible]
Oct. 20..	11	18.333	10.25	18.304	10.25	18.304	10.25	18.304	9.25	19.271	7.25	[illegible]
Nov. 1..	11.5	19.167	10.75	19.196	10.75	19.196	10.75	19.196	9.75	20.313	7.75	[illegible]
Nov. 22..	11	18.333	10.25	18.304	10.25	18.304	10.25	18.304	9.25	19.271	7.25	[illegible]
1889—Apr. 8..	9.25	15.417	8.75	15.625	8.75	15.625	9.25	16.518	8.75	18.229	6.25	[illegible]
Apr. 17..	8.5	14.167	8	14.286	8	14.286	8.5	15.179	8	16.667	5.5	[illegible]
May 13..	8.25	13.75	7.75	13.839	7.75	13.839	8.25	14.732	7.75	16.146	5.25	[illegible]
July 12..	8	13.333	7.5	13.395	7.5	13.393	8	14.286	7.5	15.625	5.25	[illegible]
July 22..	8.75	14.583	7.5	13.393	7.5	13.393	8.75	15.625	7.5	15.625	5.5	[illegible]
July 29..	8	13.333	7.25	12.946	7.25	12.946	8	14.286	7.25	15.104	5.25	[illegible]
Aug. 16..	8.25	13.75	7.5	13.393	7.5	13.393	8.25	14.732	7.5	15.625	5.5	[illegible]
Aug. 20..	8.5	14.167	7.75	13.839	7.75	13.839	8.5	15.179	7.75	16.146	5.5	[illegible]
Aug. 28..	9	15	8.25	14.732	8.25	14.732	9	16.071	8.25	17.188	6	[illegible]
Sept. 17..	9	15	8.25	14.732	8.25	14.732	9	16.071	8.25	17.188	6.375	[illegible]
Oct. 7..	9.5	15.833	8.5	15.179	8.5	15.179	9.5	16.964	8.5	17.708	6.5	[illegible]
Nov. 4..	10.5	17.5	9.5	16.964	9.5	16.964	10.5	18.75	9.5	19.792	7.5	[illegible]
Nov. 8..	9.5	15.833	8.5	15.179	8.5	15.179	9.5	16.964	8.5	17.708	6.5	[illegible]
Nov. 15..	8.75	14.583	7.75	13.839	7.75	13.839	8.75	15.625	7.75	16.146	6.5	[illegible]
1890—Apr. 10..	9.75	16.25	8.5	15.179	9	16.071	9.75	17.411	9	18.75	6.5	[illegible]
Apr. 15..	9	15	8	14.286	8.5	15.179	9	16.071	8.5	17.708	6	[illegible]
Apr. 19..	8.75	14.583	7.75	13.839	8.25	14.732	8.75	15.625	8.25	17.188	5.75	[illegible]
Apr. 28..	8.25	13.75	7.25	12.946	7.75	13.839	8.25	14.732	7.75	16.146	5.25	[illegible]
May 12..	8.25	13.75	7.25	12.946	7.75	13.839	8.25	14.732	7.75	16.146	5.25	[illegible]
June 2..	8.25	13.75	7	12.5	7.75	13.839	8.25	14.732	7.75	16.146	5.25	[illegible]
June 20..	8.5	14.167	7.25	12.946	8	14.286	8.5	15.179	8	16.667	5.5	[illegible]
July 5..	8.75	14.583	7.5	13.393	8.25	14.732	8.75	15.625	8.25	17.188	5.75	[illegible]
July 16..	8.5	14.167	7.25	12.946	8	14.286	8.5	15.179	8	16.667	5.25	[illegible]
Aug. 18..	8.5	14.167	7.25	12.946	8	14.286	8.5	15.179	8	16.667	5.25	[illegible]
1891—May 26..	7.5	12.5	6.25	11.161	6.25	11.161	7.5	13.393	6.25	13.021	4.5	[illegible]
July 25..	8	13.333	7	12.5	7	12.5	8	14.286	7	14.583	4.75	[illegible]
Aug. 7..	8.5	14.167	7.25	12.946	8	14.286	8.5	15.179	8	16.667	5.25	[illegible]
Aug. 11..	9	15	7.5	13.393	8	14.286	8.5	15.179	8	16.667	5.25	[illegible]
Aug. 12..	10	16.666	8.75	15.625	8.75	15.625	10	17.857	8.75	18.229	6.5	[illegible]
Aug. 14..	9.5	15.833	8.5	15.179	8.5	15.179	9.5	16.964	8.5	17.708	6.5	[illegible]
Oct. 10..	9	15	8	14.286	8	14.286	9	16.071	8	16.667	6	[illegible]
Oct. 14..	8	13.333	7	12.5	7	12.5	8	14.286	7	14.583	5.5	[illegible]
Nov. 6..	8.5	14.167	8	14.286	8	14.286	8.5	15.179	8	16.667	6	[illegible]
Nov. 12..	9	15	8.5	15.179	8.5	15.179	9	16.071	8.5	17.708	6	[illegible]
Nov. 16..	9.5	15.833	9	16.071	9	16.071	9.5	16.964	9	18.75	6	[illegible]
Nov. 20..	10	16.666	9.5	16.964	9.5	16.964	10	17.857	9.5	19.792	6.25	[illegible]
1892—Apr. 13..	8	13.333	7.5	13.393	7.5	13.393	8	14.286	7.5	15.625	6.5	[illegible]
May 9..	7	11.666	6.75	12.054	6.75	12.054	7	12.5	6.75	14.063	5	[illegible]
Sept. 24..	7.5	12.5	7	12.5	7	12.5	7	12.5	7	14.583	5	[illegible]
Oct. 10..	8	13.333	7.5	13.393	7.5	13.393	8	14.286	7.5	15.625	5.5	[illegible]

LAKE EQUIPMENT.

The following table is presented to show the increase in the number and capacity of boats operating on the Great Lakes. The table is arranged to show the character of each vessel and its tonnage capacity, comparison being made for the years 1886 and 1890. The principal fact brought out by this table is that steel propellers of greater capacity are rapidly taking the places of sailing vessels:

TABLE 49.—COMPARISON OF NUMBER AND NET TONNAGE OF ALL CLASSES OF BOATS COMPRISING THE FLOATING EQUIPMENT OF THE GREAT LAKES AND THE NUMBER AND TONNAGE OF EACH CLASS DURING 1886 AND 1890.

[Compiled from reports of Eleventh Census.]

Classification.	Vessels.				Net tonnage capacity.			
	Number.		Percentage.		Tons.		Percentage.	
	1886.	1890.	Increase.	Decrease.	1886.	1890.	Increase.	Decrease.
Total	1,997	2,055	2.9		634,652	826,360	30.2	
A—Structure:								
Side-wheel steamers	43	43		2.3	14,150	16,949	19.8	
Propellers under 1,000 tons	335	431	25.7		177,402	154,232		13.1
Propellers between 1,000 and 1,500 tons	72	122	69.4		86,728	151,611	74.8	
Propellers over 1,500 tons	21	110	423.8		24,868	133,390	440.3	
Tugs	466	448		3.9	11,737	12,320	6.7	
Schooners	730	557		23.7	183,792	158,620		13.7
Barges	330	325		1.5	125,975	144,038	14.3	
B—Material:								
Steel	6	68	1,033.3		6,459	99,457	1,439.8	
Iron	35	39	11.4		22,714	24,673	8.6	
Composite	2	13	550.0		63	13,554	21,414.3	
Wood	1,954	1,935		1.0	605,416	688,676	13.8	
C—Motive power:								
Steam vessels	937	1,153	23.1		324,885	523,702	61.2	
Sailing vessels	1,060	902		14.9	309,769	302,658		2.3

TABLE 50.—RATES CHARGED FOR THE TRANSPORTATION OF WHEAT AND CORN FROM BUFFALO TO NEW YORK, VIA ERIE CANAL, DURING THE YEARS 1856 AND 1857.

Date.	Rates (in cents per bushel).		Date.	Rates (in cents per bushel).		Date.	Rates (in cents per bushel).	
	Wheat.	Corn.		Wheat.	Corn.		Wheat.	Corn.
1856—May 13	13	15	1856—Sept. 16	20	16	1857—July 15	13	9½
May 20	19	15½	Sept. 23	21	16½	July 22	15	11
May 27	22	17½	Sept. 30	22½	18	July 29	14	11
June 3	22	17½	Oct. 7	22½	18	Aug. 5	14	10½
June 10	16½	13	Oct. 14	23	18	Aug. 12	14	10½
June 17	17	13	Oct. 21	23	18	Aug. 19	14	10½
June 24	18	14	Oct. 28	23	18	Aug. 26	13½	9
July 1	18	14	Nov. 4	23	18	Sept. 2	13	9½
July 8	18	14	Nov. 11	21	16	Sept. 9	15	12
July 15	18	14	1857—May 13	17½	14½	Sept. 16	15	11
July 22	18	14	May 20	17½	14½	Sept. 23	15	12
July 29	17½	14	May 27	17	12½	Sept. 30	14	11
Aug. 5	19	15	June 3	17½	13½	Oct. 4	18	12½
Aug. 12	18	14	June 10	17	11½	Oct. 7	15	11
Aug. 19	17	13	June 17	15	11	Oct. 11	16	
Aug. 26	16	12	June 24	13	10½	Oct. 14	16	12
Sept. 2	17	12	July 1	12½	9½	Oct. 21	18	16
Sept. 9	19	15	July 8	12½	10	Oct. 28	16	13

TABLE 51.—THE AVERAGE RATES CHARGED FOR THE TRANSPORTATION OF WHEAT AND CORN VIA CANAL FROM BUFFALO TO NEW YORK, DURING EACH MONTH OF THE SEASON OF NAVIGATION, FROM 1862, AND ALSO THE HIGHEST AND AVERAGE RATE ON WHEAT DURING EACH SEASON.

Years.	Rates (in cents per bushel).															
	May.		June.		July.		August.		September.		October.		November.		Highest Wheat.	Season average, Wheat.
	Wheat.	Corn.	Wheat.	Corn.	Wheat.	Corn.	Wheat.	Corn.	Wheat.	Corn.	Wheat.	Corn.	Wheat.	Corn.		
1862	13.5	11.5	12.8	10.8	14.2	12.2	15.1	13.1	17.2	15.1	18.3	16.1	19.6	17.3	24½	14.6
1863	14.6	12.6	14.3	12.3	14.6	12.6	13.9	11.9	14.0	12.0	16.4	14.4	19.6	17.6	25	15.3
1864	16.8	14.8	18.1	16.2	19.0	16.9	21.3	18.8	18.4	16.3	18.7	16.2	18.9	16.4	22	18.7
1865	14.7	12.7	13.6	11.6	14.4	12.4	14.5	12.5	15.6	13.6	21.7	19.2	23.1	20.2	28	16.9
1866	13.6	11.6	16.6	14.3	17.8	14.8	15.7	13.3	17.5	14.6	17.7	14.8	19.6	16.3	22	16.9
1867	12.3	10.3	13.2	11.2	13.8	11.8	13.7	11.7	16.3	13.4	21.1	18.1	19.1	16.2	25	15.6
1868	14.5	11.8	13.5	11.0	13.7	11.2	14.1	11.6	16.2	13.6	18.0	15.3	19.2	16.2	24	15.6
1869	13.9	11.6	13.7	11.7	12.5	10.5	14.0	12.0	16	13.7	21.5	18.4	21.7	19.0	24	16.2
1870	11.5	10.7	10.8	9.6	10.9	9.5	9.4	9.2	10.8	10.0	12.3	11.9	11.9	11.5	16	11.2
1871	11.6	10.6	10.2	9.2	11.1	10.1	11.7	10.7	13.6	12.6	13.9	12.9	16.0	14.5	17	12.6
1872	12.8	11.8	12.1	11.0	11.5	10.5	12.0	11.0	12.5	11.3	14.2	12.6	15.0	13.2	18	13
1873	11.8	10.6	10.6	9.6	10.2	9.2	10.6	9.6	11.8	10.0	12.7	11.2	12.3	10.6	14	11.4
1874	11.8	10.8	11.3	10.2	9.5	8.6	9.0	8.0	9.5	8.6	9.5	8.5	9.7	8.7	13	10
1875	7.4	6.6	6.9	6.3	7.5	6.9	8.1	7.4	7.0	6.5	8.2	7.4	10.5	9.1	11	7.9
1876	6.7	5.8	6.2	5.4	5.9	5.4	5.8	5.3	6.2	5.6	8.3	7.5	7.6	6.5	10	6.6
1877	5.8	5.0	5.0	4.9	5.4	4.7	7.0	6.4	7.7	6.7	10.9	9.2	10.0	8.7	12	7.4
1878	5.8	5.2	4.7	4.1	4.3	3.8	5.2	4.6	8.0	7.1	8.0	7.0	5.8	5.2	8.5	6
1879	4.7	4.2	4.1	3.6	5.2	4.7	6.5	5.9	8.1	7.4	8.0	7.9	10.2	8.8	12	6.8
1880	6.9	5.5	6.9	6.4	6.0	5.4	5.9	5.4	5.9	5.2	6.7	6.0	8.8	7.5	9	6.5
1881	5.3	4.8	4.7	4.2	4.3	3.8	4.0	3.5	4.8	4.3	5.0	4.5	5.0	4.6	7	4.6
1882	4.9	4.5	4.8	3.9	4.4	4.0	5.4	4.9	5.8	5.3	6.8	6.2	6.1	5.5	8	5.4
1883	5.0	4.5	4.3	3.9	3.9	3.6	4.6	4.3	6.3	5.9	5.5	5.0	4.6	4.1	6.5	4.8
1884	3.8	3.4	3.4	3.1	3.6	3.2	4.2	3.8	4.7	4.2	5.0	4.4	4.7	4.2	5.5	4.1
1885	4.2	3.8	3.1	2.9	3.0	2.8	3.7	3.3	3.5	3.2	4.2	3.9	5.0	4.5	6	3.8
1886	5.7	5.1	3.8	3.4	4.0	3.6	5.4	4.8	6.0	5.5	5.5	5.0	4.8	4.5	6.5	5
1887	5.1	4.6	4.5	4.1	3.8	3.4	4.0	3.6	4.5	4.1	4.8	4.4	5.8	5.3	7	4.8
1888	3.4	3.1	2.5	2.3	2.5	2.3	4.1	3.8	3.9	3.6	3.7	3.4	3.5	3.2	4.5	3.4
1889	4.0	3.6	3.8	3.4	4.0	3.6	4.4	3.9	5.0	4.5	5.0	4.5	5.0	4.4	5	4.2
1890	3.9	3.5	3.8	3.4	3.6	3.2	3.8	3.4	3.9	3.5	4.0	3.6	3.5	3.1	4.2	3.6
1891	2.8	2.5	2.9	2.6	2.8	2.5	3.8	3.5	4.2	3.8	4.6	4.2	4.0	3.6	4½	3.5
1892	2.7	2.4	2.2	2.0	2.4	2.2	3.0	2.6	3.8	3.4	4.7	4.4	4.6	4.3	6	3.4

LIVE STOCK AND DRESSED MEATS TRAFFIC FROM CHICAGO.

Practically all the live stock and dressed meat traffic forwarded to the Atlantic seaboard may be said to originate at Chicago, so far as the purposes of the rates now to be referred to are concerned. The basis upon which the rates covering this traffic are constructed is similar to that explained for the previous tables covering what is called the "dead freight" traffic; the rates from other Western points east of the Mississippi River to the seaboard are made with regard to the rates from Chicago. In former years it was not invariably the custom to preserve the relation between such points; the roads from St. Louis and other Western points would make such rates as the interests of the business might require without regard to the rates from Chicago. St. Louis has been an important shipping point for traffic of this character, and it has been generally the custom to maintain the rate from St. Louis to the seaboard on these articles 5 cents higher than from Chicago. The present rates from Chicago to the Eastern cities are as follows:

TABLE 52.—EAST BOUND LIVE STOCK AND DRESSED MEATS RATES.

	Rates (in cents per 100 pounds) from Chicago to—			
	Boston.	Philadelphia.	Baltimore.	New York.
Cattle	28	26	25	28
Hogs	30	28	27	30
Sheep	30	28	27	30
Horses and mules	60	58	57	60
Dressed beef	45	43	42	45
Dressed hogs, refrigerator cars	45	43	42	45
Dressed hogs, common cars	45	43	42	45

Here following is given a statement showing the rates on live stock and dressed meats from Chicago to New York, from 1872 to the present time. The differences shown in the above table for points other than New York may, for the purposes of comparison, be accepted as applying throughout the period covered by this table; and it may be also understood that the changes from Chicago were followed by similar changes from other points east of the Mississippi River from which this traffic is forwarded.

TABLE 53.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF LIVE STOCK AND DRESSED MEATS FROM CHICAGO TO NEW YORK VIA ALL RAIL LINES FROM MARCH 26, 1872.

Date.	Rates (in cents per 100 pounds.)						
	Cattle.	Hogs.	Sheep.	Horses and mules.	Dressed beef.	Dressed hogs, refrigerator cars.	Dressed hogs, common cars.
1872—Mar. 26					90		
Nov. 20					95		
1874—Dec. 1					85		
1875—Nov. 2					70		
1876—Nov. 18					65		
1877—Apr. 30					85		
Sept. 4					70		
Oct. 22					75		
1878—Sept. 2					90		
1879—June 9	35	35	60	60	67½		
June 26	35	35	60	60	56		
Aug. 4	50	40	60	60	80		
Aug. 25	50	45	60	60	80		
Oct. 13	50	50	60	60	80		
Nov. 10	55	55	65	65	88		
1880—Mar. 1	55	50	65	65	88		
Apr. 14	55	40	65	65	88		
Sept. 20	55	35	65	65	88		
Nov. 1	55	40	65	65	88		
1881—Mar. 14	50	40	60	60	80		
Apr. 1	50	35	60	60	80		
May 9	25	35	60	60	40		
June 8	25	30	60	60	40		
June 15	25	25	60	60	40		
1882—Mar. 13	25	30	60	60	40		
Apr. 17	40	30	50	60	64		
Dec. 1	40	35	50	60	64		
1883—Apr. 23	40	30	50	60	64		
Nov. 26	40	35	50	60	64		
1884—Jan. 5	40	25	50	60	64		
Jan. 14	40	35	50	60	64		
Mar. 14	40	25	50	60	64		
Mar. 21	40	20	50	60	64		
May 5	30	20	40	60	48		
June 24	30	25	40	60	48		
July 21	30	30	40	60	48		
Sept. 1	20	30	40	60	32		
Dec. 8	40	30	50	60	70		
1885—Mar. 23	40	25	50	60	70		

TABLE 53.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF LIVE STOCK AND DRESSED MEATS FROM CHICAGO TO NEW YORK, ETC.—Continued.

Date.	Rates (in cents per 100 pounds.)						
	Cattle.	Hogs.	Sheep.	Horses and mules.	Dressed beef.	Dressed hogs, refrigerator cars.	Dressed hogs, common cars.
1885—May 3	30	25	40	60	52½	.....	.....
July 1	25	20	40	60	43½	.....	.....
July 13	25	25	40	60	43½	.....	.....
Nov. 23	25	30	40	60	43½	.....	.....
1886—Jan. 1	25	30	25	60	43	42½	35
Mar. 1	35	30	45	60	65	55	45
Dec. 20	35	35	45	60	65	55	45
1887—Apr. 22	35	35	40	60	65	65	55
June 4	35	30	40	60	65	65	55
Nov. 21	31½	30	36	60	58½	58½	48½
Nov. 23	28½	30	32½	60	52½	52½	43½
Nov. 24	25½	30	29	60	47	47	39
Nov. 25	23	30	26	60	42½	42½	35
Nov. 26	20½	30	23½	60	38½	38½	32
Nov. 28	18½	30	21	60	34½	34½	28½
Nov. 29	16½	30	19	60	31	31	26
Dec. 26	35	30	40	60	65	65	55
1888—May 14	25	30	25	60	65	65	55
June 18	16½	25	25	60	65	65	55
June 25	16½	25	25	60	40	40	33
June 26	16½	25	25	60	35	35	29
June 29	16½	25	25	60	30½	30½	25½
July 2	14½	25	25	60	28½	28½	23½
July 3	12½	25	25	60	23	23	19
July 5	11	20	25	60	20	20	17
July 6	9½	20	25	60	17½	17½	14½
July 7	8½	20	25	60	15½	15½	13
July 9	7½	20	25	60	13½	13½	11
July 10	6½	20	25	60	12	12	10
July 11	5½	20	25	60	10½	10½	8½
July 12	5½	20	25	60	9	9	7½
July 13	5½	20	25	60	8	8	6½
July 14	5½	18	25	60	7	7	6
Aug. 3	5½	18	25	60	22½	22½	18½
Aug. 20	14½	18	25	60	25	25	21
Aug. 25	10	18	25	60	25	25	21
Sept. 24	15	18	25	60	25	25	21
Oct. 15	15	25	25	60	25	25	21
Oct. 22	15	30	25	60	25	25	21
Nov. 7	15	25	25	60	25	25	21
Dec. 17	22½	30	30	60	50	50	42
1889—May 1	26	30	30	60	45	45	38
1890—May 26	26	25	30	60	45	45	38
June 16	22½	25	30	60	42	42	35
June 20	22½	25	30	60	38	38	32
June 26	21	25	30	60	38	38	32
June 30	19½	25	30	60	33	33	28
July 3	18	25	30	60	30	30	25
July 11	18	28	30	60	30	30	25
Nov. 24	26	30	30	60	45	45	38
1891—Apr. 20	28	30	30	60	45	45	38
1892—June 16	28	25	30	60	45	45	38
Oct. 10	28	30	30	60	45	45	38

From the above it is shown that following each period of reduction the rates were again advanced to a figure considered by the railroads as the normal rate. In 1882, 1883, and 1884 the normal rates were not higher than 40, 30, 50, 60, and 64 cents per 100 pounds on the respective commodities. The rates established in March, 1886, namely, 35, 30, 45, 60, and 65, were apparently deemed the maximum rates which could then be obtained. This basis continued until November, 1887, when the rates rapidly declined, and were again restored, in December, to the preceding basis. In May, 1888, certain reductions were made, which were followed in June and July by frequent and greater declines, when the following lowest open rates found were reached, namely, 5½, 18, 25, 60, and 7. Slight advances were made on different dates until December 17, when the following basis was adopted, 22½, 30, 30, 60, and 50. Further adjustment occurred on May 1, 1889, when the rates were changed to 26, 30, 30, 60, 45. These rates continued until June 16, 1890, over a year, without change, but the rates were again several times reduced until July 3, when the low basis of 18, 25, 30, 50, 30 was reached. Advances were made in November of the same year, and again in April, 1891, when the following rates were established, namely, 28, 30, 30, 60, 45, which have continued in effect up to the present time.

The changes in the cattle rates show that the normal or standard rates have been considerably reduced. The normal rate in 1885 was 40 cents, 1886 35 cents, and in 1891 and 1892 28 cents. No higher rate than 28 cents on cattle from Chicago to New York has been charged since May, 1888. Similar results are shown for the dressed beef rates; in 1885 the normal rate was 70 cents; 1886, 65 cents. This latter rate prevailed a part of 1887 and 1888, but the restoration which took place after the numerous reductions in 1888 gave the rate of 50 cents to dressed beef, which on May 1, 1889, was reduced to 45 cents. Further reductions were made in 1890, and the 45 cent rate was restored in the latter part of the same year, since which time it has not been higher.

The highest rates now applied to this traffic, when peace prevails between the competitive carriers, are on a much lower basis than were charged under similar conditions in former years.

The tonnage of live stock and dressed beef carried from Chicago and points west thereof to the Eastern cities and the Atlantic seaboard at the above rates is shown in the following table, covering from 1880 to and including 1892. From this table it is possible to estimate the enormous saving in revenue to the public by the reductions in the rates for this traffic.

TABLE 54—LIVE STOCK AND DRESSED MEATS TONNAGE FROM CHICAGO

Year.	Tons.
1880	649,464
1881	720,923
1882	775,406
1883	847,793
1884	788,111
1885	848,020
1886	912,352
1887	1,047,273
1888	1,194,224
1889	1,458,226
1890	1,639,495
1891	1,569,396
1892	1,582,254

OIL RATES.

Here below is given a table showing the changes in the rates on crude petroleum and its products from the points in the oil region as indicated by the table to the seaboard points named, from 1877 to 1888.

TABLE 55.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CRUDE PETROLEUM AND ITS PRODUCTS FROM THE OIL REGIONS TO PHILADELPHIA, PA., BALTIMORE, MD., AND COMMUNIPAW, N. J., FROM DECEMBER 1, 1877.

Date.	Rates (in cents, per barrel).							
	Refinery products.				Crude.			
	From Pittsburg, Pa., Oil City, Pa., and Olean, N. Y., to—				From Olean, N. Y., Clarendon, Kane, and Warren, Pa, to—		From Pittsburg and Oil City districts to—	
	Philadelphia, Pa., and Baltimore, Md.		Communipaw, N. J.		Baltimore, Md., and Philadelphia, Pa.	Communipaw, N. J.	Baltimore, Md., and Philadelphia, Pa.	Communipaw, N. J.
	In tanks.	In barrels.	In tanks.	In barrels.				
1877—Dec. 1	175	175	190	190	100	115	125	140
1879—Jan. 23	45	45	50	50				
May 9					70	85		
June 2							85	100
June 23					25	30	50	55
1880—April 1	50	50	68	68	50	60	75	85
May 15	69½	69½	82½	82½	65	75	90	105
June 7	38	38	51	51	41	60	41	51
Aug. 10	50	50	60	60	50	50	50	60
Sept. 27					33	33	48	48
1881—Oct. 1	43	43	48	48				
1884—Feb. 1	45	45	52	52	40	45	50	55
1888—Sept. 13	45	58	53	60				

COAL RATES.

Here following are given three statements showing the rates on anthracite and bituminous coal from the principal regions on the Lehigh Valley and Pennsylvania railroads. The first table shows anthracite coal rates to tide-water and the successive changes therein from 1877 to the present time. The second table covers rates from the same regions westward to Buffalo for the same period. The third covers the changes in the bituminous coal rates from collieries in the Clearfield region on the Pennsylvania railroad to Jersey City, Philadelphia, and Baltimore.

TABLE 56.—THE AVERAGE FREIGHT RATES PER TON OF 2,240 POUNDS CHARGED FOR THE TRANSPORTATION OF ANTHRACITE COAL FROM COLLIERIES ON THE LEHIGH VALLEY RAILROAD IN THE LEHIGH, MAHANOY, AND WYOMING REGIONS, TO PERTH AMBOY, FROM JUNE 7, 1875.

Date.	From Lehigh and Mahanoy regions.			From Wyoming region.		
	Prepared sizes.	Pea and buckwheat.	Culm.	Prepared sizes.	Pea and buckwheat.	Culm.
1875—June 7	$2.56	.....	.....	$2.88	.....	.....
July 1	2.54	.....	.....	2.84	.....	.....
Aug. 1	2.56	.....	.....	2.86	.....	.....
Sept. 1	2.58	.....	.....	2.88	.....	.....
Oct. 1	2.60	.....	.....	2.90	.....	.....
1876—Feb. 1	2.41	.....	.....	2.71	.....	.....
Mar. 1	2.30	.....	.....	2.60	.....	.....
May 1	2.32	.....	.....	2.62	.....	.....
June 1	2.34	.....	.....	2.64	.....	.....
July 1	2.36	.....	.....	2.66	.....	.....
Aug. 1	2.42	.....	.....	2.72	.....	.....
Sept. 1	1.59	.....	.....	1.80	.....	.....
Nov. 1	1.62	.....	.....	1.92	.....	.....
1877—Apr. 1	1.36	.....	.....	1.57	.....	.....
Sept. 1	1.49	.....	.....	1.70	.....	.....
Sept. 24	1.59	.....	.....	1.80	.....	.....
Oct. 29	1.49	.....	.....	1.70	.....	.....
1878—Feb. 1	1.62	.....	.....	1.83	.....	.....
Mar. 25	1.67	.....	.....	1.88	.....	.....
June 3	1.72	.....	.....	1.93	.....	.....
June 26	1.75	.....	.....	1.96	.....	.....
1879—Jan. 13	1.62	.....	.....	1.83	.....	.....
Feb. 17	1.49	.....	.....	1.70	.....	.....
Mar. 1	1.36	.....	.....	1.57	.....	.....
Mar. 19	1.25	.....	.....	1.46	.....	.....
Apr. 1	1.10	.....	.....	1.31	.....	.....
Apr. 14	1.09	.....	.....	1.21	.....	.....
Nov. 1	1.15	.....	.....	1.36	.....	.....
Nov. 10	1.25	.....	.....	1.46	.....	.....
Nov. 24	1.40	.....	.....	1.61	.....	.....
1880—Jan. 4	$1.40	.....	.....	$1.61	.....	.....
Mar. 1	1.60	.....	.....	1.81	.....	.....
Apr. 5	1.75	.....	.....	1.96	.....	.....
Sept. 13	1.90	.....	.....	2.11	.....	.....
1882—May 29	1.75	.....	.....	1.96	.....	.....
July 10	1.90	.....	.....	2.11	.....	.....
1884—Apr. 1	1.77	$1.57	$1.57	1.86	$1.66	$1.66
1885—Feb. 2	1.57	1.37	1.37	1.66	1.46	1.46
Aug. 27	1.37	1.17	1.17	1.46	1.26	1.26
1886—Oct. 1	1.47	1.27	1.27	1.56	1.36	1.36
1887—Apr. 4	1.56	1.41	1.41	1.67	1.52	1.52
Nov. 21	1.81	1.66	1.66	1.92	1.77	1.77
Dec. 12	1.90	1.75	1.75	2.00	1.85	1.85
1888—Mar. 12	1.70	1.55	1.55	1.80	1.65	1.65
Apr. 2	1.70	1.45	1.45	1.80	1.55	1.55
May 1	1.70	1.40	1.20	1.80	1.50	1.30
Sept. 1	1.80	1.40	1.20	1.90	1.50	1.30
1889—Apr. 15*	1.70	1.40	1.20	1.75	1.45	1.25
1892—Sept. 12	1.85	1.55	1.35	1.85	1.55	1.35

* On and after this date buckwheat takes the same rate as culm.

TABLE 57—AVERAGE FREIGHT RATES, PER TON OF 2,240 POUNDS, CHARGED FOR THE TRANSPORTATION OF ANTHRACITE COAL FROM COLLIERIES ON THE LEHIGH VALLEY RAILROAD, IN THE WYOMING AND LEHIGH REGIONS, TO BUFFALO N. Y., FROM AUGUST 1, 1875.

Date.	From Wyoming region.		From Lehigh region.		Date.	From Wyoming region.		From Lehigh region.	
	Coal cars.	Box cars.	Coal cars.	Box cars.		Coal cars.	Box cars.	Coal cars.	Box cars.
1875—Aug. 1	$4.09	.....	.....	.....	1882—July 10	$2.92	$2.62	$3.40	$2.9
Sept. 1	4.12	.....	.....	.....	Sept. 4	3.00	2.70	3.57	3.7
1876—May 1	3.80	.....	.....	.....	Nov. 1	3.11	2.81	3.68	3.8
June 1	3.72	.....	.....	.....	1883—Apr. 23	2.74	2.44	3.06	2.8
Sept. 1	2.83	.....	.....	.....	July 2	2.87	2.57	3.19	2.9
Oct. 1	2.97	.....	.....	.....	Sept. 1	2.93	2.63	3.25	2.9
Oct. 27	3.22	.....	.....	.....	1884—May 1	2.62	2.32	2.94	2.6
1877—Jan. 1	3.26	.....	.....	.....	Aug. 1	2.71	2.41	3.02	2.7
May 1	2.61	.....	.....	.....	1885—May 1	2.35	2.15	2.74	2.5
May 21	2.43	.....	.....	.....	Nov. 2	2.50	2.30	2.97	2.7
June 1	2.38	.....	.....	.....	1886—May 1	2.20	2.00	2.57	2.3
Aug. 6	2.61	.....	.....	.....	Aug. 2	2.30	2.00	2.77	2.4
Aug. 20	3.41	.....	.....	.....	Nov. 15	2.30	2.15	2.72	2.6
Oct. 15	2.97	.....	.....	.....	1887—Apr. 4	2.25	2.25	2.72	2.7
Oct. 22	2.74	.....	.....	.....	Apr. 21	2.00	2.00	2.32	2.3
1878—Feb. 1	2.90	.....	.....	.....	Nov. 7	2.25	2.25	2.25	2.2
May 1	2.53	.....	.....	.....	1888—Apr. 16	2.00	2.00	2.00	2.0
July 1	2.69	.....	.....	.....	May 1	2.00	2.00	2.00	2.0
Sept. 2	2.85	$2.85	.....	.....	Sept. 1	2.25	2.25	2.25	2.2
1879—Apr. 1	2.00	1.85	.....	.....	1889—Apr. 15	2.00	2.00	2.00	2.0
Oct. 20	2.16	1.85	.....	.....	1892—May 2	2.25	2.25	2.25	2.2
May 1	2.34	2.05	.....	.....	Sept. 12	2.50	2.50	2.50	2.5
Dec. 1	2.58	2.38	.....	.....	Sept. 19	2.50	2.50	2.70	2.7
1880—Apr. 1	2.77	2.47	.....	.....					
May 3	2.77	2.47	.....	$3.02					
June 1	2.87	2.57	.....	3.07					
Aug. 2	2.96	2.66	.....	3.13					
Dec. 1	3.12	2.82	.....	3.29					
1881—Jan. 1	3.26	2.96	.....	3.58					
Apr. 25	2.93	2.63	.....	3.25					
July 1	3.01	2.71	.....	3.13					
Oct. 1	3.15	2.85	.....	3.27					
1882—Apr. 17	2.84	2.54	.....	2.96					
June 1	2.78	2.48	$3.35	3.05					

TABLE 58—AVERAGE FREIGHT RATES CHARGED DURING EACH YEAR FROM 1873 FOR THE TRANSPORTATION OF BITUMINOUS COAL FROM COLLIERIES IN THE CLEARFIELD REGION, ON PENNSYLVANIA RAILROAD, TO JERSEY CITY, PHILADELPHIA, AND BALTIMORE.

Year.	Jersey City.	Philadelphia.	Baltimore.	Year.	Jersey City.	Philadelphia.	Baltimore.	Year.	Jersey City.	Philadelphia.	Baltimore.
1873	$4.05	$3.55	$3.55	1883	$3.33	$2.50	$2.25				
1874	4.05	3.55	3.55	1884	2.93	2.20	2.20				
1875	3.80	3.55	3.55	1885	2.45	2.00	2.00				
1876	3.55	3.55	3.55	1886	2.45	2.00	2.00				
1877	3.55	3.25	3.25	1887	2.25	2.10	2.00				
1878	3.55	2.25	3.25	1888	2.25	2.10	2.00				
1879	3.55	2.50	2.50	1889	2.25	2.00	2.00				
1880	3.75	2.50	2.50	1890	2.25	2.00	2.00				
1881	3.33	2.50	2.50	1891	2.25	2.00	2.00				
1882	3.33	2.50	2.50	1892	2.25	2.00	2.00				

Rates shown for years 1873 to 1886, inclusive, are for net ton; subsequent rates are for gross tons.

RATES ON CLASSIFIED TRAFFIC AND COMMODITIES BETWEEN VARIOUS WESTERN POINTS.

Here following will be given a series of tables showing the changes in rates between principal competitive localities west of Chicago and the Mississippi River. The points selected are the termini of the principal competitive routes in the section indicated. The rates between such points are the standard, or basis upon which the charges to numerous other places are established, and should be accepted not alone as showing the changes between the points given by the tables, but as also representing the reductions which have taken place in a large area of country tributary to the carriers operating between the points embraced in the tables. Traffic coming to or destined beyond these termini has also been to a large extent affected by these changes:

RATES ON CLASSIFIED TRAFFIC AND COMMODITIES FROM CHICAGO TO ST. PAUL, MINN.

The two tables following show the rates from Chicago to St. Paul. The first embraces the class rates from 1883 to the present time; the second covers the rates on the various commodities, some of which are shown for as early as 1871. The class rates are governed by the Western classification, in connection with which it should be remembered that the classification has been greatly reduced. The table of commodities is compiled based upon the rates of the commodoties and the classification, and embraces for such articles both the changes which may have taken place in the rates and in the classification.

TABLE 59.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC FROM CHICAGO TO ST. PAUL, FROM NOVEMBER 1, 1883.

[Governed by Western classification.]

Date.	Classes (rates in cents per 100 pounds).									
	1.	2.	3.	4.	5.	A.	B.	C.	D.	E.
1883—Nov. 1	75	60	40	30	25	25	20	17½	15	.....
Nov. 21	75	60	40	30	25	25	20	17½	15	.....
1884—Apr. 1	60	45	35	25	20	25	20	17½	15	.....
1885—Apr. 13	50	40	30	20	15	20	17½	15	12½	.....
Nov. 16	60	45	35	22½	17½	22½	20	17½	15	.....
1886—July 20	40	30	20	15	10	17½	15	12½	10	.....
Nov. 1	72	60	40	28	24	26	23	18	18	.....
1887—Apr. 1	80	70	48	33	28	30	26	23	20	.....
June 16	75	60	45	30	20	25	20	16	13	12
Aug. 1	50	40	30	20	12½	17½	15	13	10	8
Sept. 1	50	40	30	20	12½	17½	15	13	10	8
Nov. 15	50	40	30	20	12½	17½	15	13	10	8
1888—June 4	60	50	35	25	17	18	16	14	12	10
July 19	60	50	35	25	17	17½	15	14	12	10
Oct. 10	60	50	40	25	20	25	20	17	14	12
1889—July 8	60	50	40	25	20	25	20	17	14	12
Sept. 25	40	35	22	17	12½	17	13	10	10	10
Nov. 20	60	50	40	25	20	25	20	17	14	12
1890—Feb. 17	40	35	22	17	12½	17	15	13	10	10
Aug. 1	50	40	30	20	15	20	15	12½	11	10
Nov. 17	60	50	40	25	18	25	18	15	13	12
1891—Jan. 1	60	50	40	25	20	25	20	17	14	12

TABLE 60.—RATES OF FREIGHT, ALL RAIL, FROM

[NOTE.—Where the rates shown are not specifically described as applying on less than

Date.	Commodities (rates in cents per 100 pounds).												
	Dry goods.	Cotton piece goods.	Boots and shoes.	Oil in barrels.	Hard coal.	Stoves.		Coffee.		Tea.	Sugar.		Molasses.
						Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.
1871—Jan. 9	130	....	130	70	35	....	....	....	70	....	....	70	....
Mar. 25	85	....	85	35	35	....	....	....	35	....	....	35	....
Aug. 10	70	....	70	25	25	....	....	....	25	....	....	25	....
Oct. 16	100	....	100	50	30	....	....	....	50	....	....	50	....
Dec. 1	130	....	130	70	35	....	....	....	70	....	....	70	....
1872—Apr. 22	75	....	75	30	30	....	....	....	30	....	....	30	....
Aug. 15	75	....	75	30	25	....	....	....	30	....	....	30	....
1873—Nov. 17	100	....	100	50	30	....	....	....	50	....	....	50	....
1874—Apr. 7	80	....	80	35	30	....	....	....	35	....	....	35	....
May 21	80	....	80	35	30	....	....	....	35	....	....	35	....
Aug. 10	80	....	80	35	22½	....	....	....	35	....	....	35	....
Sept. 1	80	....	80	35	30	....	....	....	35	....	....	35	....
Nov. 23	100	....	100	55	22½	....	....	....	55	....	....	55	....
1879—Jan. 2	90	....	90	80	20	....	....	....	45	....	....	45	....
Mar. 30	60	....	60	60	15	....	....	....	25	....	....	25	....
Nov. 3	75	....	75	90	20	....	....	....	35	....	....	35	....
1880—Mar. 22	60	....	60	60	20	....	....	....	25	....	....	25	....
1881—Jan. 24	75	....	75	90	20	....	....	....	35	....	....	35	....
Apr. 11	60	....	60	70	20	....	....	....	25	....	....	25	....
Nov. 15	60	....	60	60	15	....	....	....	25	....	....	25	....
1882—Feb. 2	75	....	75	25	20	....	....	....	35	....	....	35	....
Feb. 20	60	....	60	20	15	....	....	....	25	....	....	25	....
1883—Nov. 1	75	75	75	.....	.....	40	25	30	25	75	30	25	30
1884—Mar. 1	75	75	75	.....	.....	40	25	30	25	75	30	25	30
Apr. 1	60	60	60	.....	.....	35	20	25	20	60	25	20	25
1885—Apr. 3	50	50	50	.....	.....	30	15	20	15	50	20	15	20
Nov. 16	60	60	60	.....	.....	35	17½	22½	17½	60	22½	17½	17½
1886—July 1	60	60	60	.....	.....	35	17½	22½	17½	60	22½	17½	17½
July 20	40	40	40	.....	.....	20	10	15	10	40	15	10	15
Nov. 1	72	72	72	.....	.....	40	24	28	24	72	28	24	28
1887—Apr. 1	80	80	80	.....	.....	48	28	33	28	80	33	28	33
June 6	75	75	75	.....	.....	45	20	30	20	75	30	20	30
Aug. 1	50	50	50	.....	.....	30	12½	20	12½	50	20	12½	20
Nov. 15	50	30	50	12½	10	30	12½	20	12½	50	20	12½	20
1888—June 4	60	35	60	17	10	35	17	25	17	60	25	17	25
July 19	60	35	60	17	10	35	17	25	17	60	25	17	25
Sept. 4	60	....	60	17	10	.....	.....	.....	17	.....	.....	17	.....
Oct. 10	60	35	60	20	12½	40	20	25	20	62	25	20	25
Nov. 20	60	....	60	17	12½	.....	.....	.....	20	.....	.....	20	.....
1889—Jan. 10	60	35	60	25	12½	40	20	25	20	60	25	20	25
Apr. 1	60	60	60	.....	.....	40	20	25	20	60	25	20	25
July 5	60	....	60	25	12½	.....	.....	.....	10	.....	.....	10	.....
Sept. 5	60	....	60	12½	12½	.....	.....	.....	20	.....	.....	12½	.....
Sept. 25	40	40	40	12½	12½	22	19	17	12½	40	17	12½	17
Nov. 20	60	60	60	12½	12½	40	20	25	20	60	25	20	25
1890—Feb. 17	40	40	40	12½	12½	22	10	17	12½	40	17	12½	17
Aug. 1	50	50	50	12½	12½	30	10	20	15	50	20	15	20
Nov. 17	60	60	60	12½	12½	30	10	25	18	60	25	18	25
1891—Jan. 1	60	....	60	10	12½	.....	.....	.....	20	.....	.....	20	.....
Jan. 22	60	....	60	12½	12½	.....	.....	.....	20	.....	.....	20	.....
1892—June 10	60	....	60	15	12½	.....	.....	.....	20	.....	.....	20	.....

CHICAGO, ILL., TO ST. PAUL, MINN.

carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																				
Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Lumber.	Salt.	Machinery.		Beer.	
Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.				Less than carloads.	Carloads.	Less than carloads.	Carloads.
																*60				
															30	*60				
															30	*60				
															30	*60				
															20	*50				
															20	*30				
															20					
																12½				
															20					
															17½	12½				
															20					
															17½	12½				
30	25	75	75	30	25	30	30	60	60	30	17½	30	25	60			60	25		
30	25	75	75	30	20	30	30	60	60	30	25	30	25	60			60	25	40	24
25	20	60	60	25	20	25	25	45	45	25	20	25	20	45			45	25	35	20
20	15	50	50	20	17½	20	20	40	40	20	15	20	15	50			40	20	30	16
22½	17½	60	60	22½	20	22½	22½	45	45	22½	17½	22½	17½	45			45	22½	35	18
22½	17½	60	60	22½	22½	22½	22½	45	45	22½	17½	22½	17½	45			45	22½	35	18
15	10	40	40	15	15	15	15	30	30	15	10	15	10	30			30	17½	20	12
28	24	72	72	28	28	28	28	60	60	28	24	28	25	60			60	26	40	22½
33	28	80	80	33	33	33	33	70	70	33	28	33	28	70			70	30	48	26½
30	20	75	75	30	20	30	30	60	60	30	20	30	20	60			60	25	45	24
20	12½	50	50	20	12½	20	20	40	40	20	12½	20	12½	40			40	17½	30	16
20	12½	50	50	20	12½	20	20	40	40	20	12½	20	12½	40	12½	10	40	17½	30	16
25	17	60	60	25	17	25	25	50	50	25	17	25	17	60	12½	12	50	18	35	20
25	17	60	60	25	17	25	25	50	50	25	17	25	17	60	12½	12	50	17½	35	20
															14					
25	20	60	60	25	20	25	25	50	50	25	20	25	20	50	14	14	50	25	40	20
															14	14				
25	20	60	60	50	20	25	25	50	50	25	20	25	20	50	14	14	50	25	40	20
25	20	60	60	25	20	25	20	50	25	25	20	25	20	50			50	25	40	20
															14	14				
															14	14				
17	12½	40	40	17	12½	17	12½	35	17	17	12½	17	9	35	14	8½	35	17	22	12½
25	20	60	60	25	20	25	20	50	25	25	20	25	20	50	14	14	50	25	40	20
17	12½	40	40	17	12½	17	12	35	17	17	12½	17	12½	35	14	8½	35	17	22	12½
20	15	50	50	20	15	40	15	40	20	20	15	20	10	40	14	12½	40	20	30	15
25	18	60	60	25	18	25	18	50	25	25	18	25	18	50	14	12½	50	25	40	18
															14	12½				
															14	12½				
															14	12½				

* Rate in cents per barrel.

RATES ON CLASSIFIED TRAFFIC, ST. PAUL, MINN., TO CHICAGO.

The following table shows the changes which have taken place in rates of freight carried in the classes from St. Paul, Minn., to Chicago from 1883 up to the present time.

With this table, as well as the others referred to, the changes which have been pointed out for the Western classification are to be also here considered, in order that the correct result of the reductions which have taken place may be fully understood.

TABLE 61.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND GRAIN FROM ST. PAUL TO CHICAGO FROM NOVEMBER 1, 1883.

[Governed by Western classification.]

Date.	Class (rates in cents per 100 pounds.)												
	1.	2.	3.	4.	5.	A.	B.	C.	D.	E.	Wheat and its products.	Corn and grain.	Rye and barley
1883—Nov. 1	75	60	40	30	25	25	20	17½	15	.....	20	20	20
1884—Apr. 1	60	45	35	25	20	25	20	17½	15	.....	20	17½	17½
1885—Apr. 13	50	40	30	20	15	20	17½	15	12½	.....	17½	15	15
Nov. 16	60	45	35	22½	17½	22½	20	17½	15	....	17½	15	15
1886—July 20	45	35	25	20	15	20	17½	15	12½	.....	.....	.....	.....
Nov. 1	72	60	48	28	24	26	23	18	18	.....	.....	12½	12½
1887—Apr. 1	80	70	48	33	28	30	26	23	20	.....	.....	15	15
June 16	75	60	45	30	20	25	20	16	13	12	.....	.....	.....
Aug. 1	50	40	30	20	12½	17½	15	13	10	8	.....	.....	.....
Sept. 1	50	40	30	20	12½	17½	15	13	10	8	12½	12½	12½
June 4	60	50	35	25	17	18	16	14	12	10	12½	12½	12½
July 19	60	50	35	25	17	17½	15	14	12	10	12½	12½	12½
Oct. 10	60	50	40	25	20	25	20	17	14	13	12½	12½	12½
1890—Nov. 17	60	50	40	25	18	25	18	15	13	12	12½	12½	12½
1891—Jan. 1	60	50	40	25	20	25	20	17	14	13	12½	12½	12½

RATES FROM CHICAGO TO MISSOURI RIVER POINTS.

Rates from Chicago to Missouri River points, such as Kansas City and St. Joseph, Mo., and Atchinson and Leavenworth, Kans,, are used as a basis for constructing the rates from Chicago to points in Kansas, Nebraska, Colorado, and Utah. They are therefore important rates at which a large traffic is carried, and when changed similarly affect rates to the western points indicated. A table is here given showing the changes in rates from Chicago to the Missouri River from 1877 to date.

The traffic taken between these points is governed by the Western classification, which, it has elsewhere been shown, has by its expansion reduced the classification on a large proportion of articles carried there under. Accordingly the traffic taken at the classified rates here given has received the benefit of the changes in the classification, and this fact should be kept in mind when the rates of this table are under consideration.

Data have also been collected showing the actual changes in the rates of a number of articles between Chicago and Kansas City, and are given in the second table following. This table covers a period of nearly thirty years, and the rates of 1892 are shown to be in many instances less than a third of those of 1864. Some remarkable reductions are observed, notably the rates on stoves.

TABLE 62.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC FROM CHICAGO TO KANSAS CITY MO.; ATCHISON, KANS.; LEAVENWORTH, KANS., AND ST. JOSEPH, MO., FROM JANUARY 1, 1877.

[Governed by Western classification.]

Date.	Classes (rates in cents per 100 pounds).									
	1.	2.	3.	4.	5.	A.	B.	C.	D.	E.
1877—Jan. 1	85	70	40	30	25	37½	30	20	.....	.....
1882—Aug. 1	90	75	50	32	28	37½	32	23	.....	.....
Nov. 1	90	75	50	32	28	37½	32	23	22	.....
1884—June 2	90	75	50	35	30	32½	29½	23	22	.....
1887—April 1	90	75	50	35	30	32½	29½	23	20	16
Aug. 1	90	75	50	35	30	32½	29½	23	20	16
Dec. 20	75	60	40	30	25	30	25	20	17½	16
1888—Jan. 9	75	60	40	30	25	30	25	15	15	15
Mar. 26	75	60	40	30	25	30	25	20	17½	16
1890—Feb. 22	60	50	35	25	18	25	20	15	14	13
Aug. 1	70	58	42	28	21	28	23	18	16	15
1891—Jan. 1	75	60	42	30	25	30	25	20	17½	16

TABLE 63—RATES OF FREIGHT, ALL-RAIL, FROM

[NOTE.—Where the rates shown are not specifically described as applying on less than carload

Date.	Commodities (rates in cents per 100 pounds).										
	Dry goods.	Cotton piece goods.	Boots and shoes.	Stoves.		Coffee.		Tea.	Sugar.		Molasses.	
				Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.
1864—Feb. 12	154	154	154	154	154	94	94	131	94	94		
1865—Mar. 27	170	170	170	170	170	103	123	152	103	102		
1869—Oct. 25	120	120	120	120	65	65	65	85	65	65		
1870—Mar. 24	100	100	100	100	50	50	50	70	50	50		
1871—Nov. 1	100	100	100	45	45	45	45	70	45	45		
1874—Apr. 20	90	90	90	75	*8500	60	35	90	40	25		
1875—Mar. 1	100	100	100	60	45	60	45	100	45	30		
1876—Jan. 19	85	85	85	45	25	45	25	85	30	25		
Feb. 1	90	90	90	50	40	50	35	90	40	25		
1877—Jan. 29	85	85	85	45	25	30	25	85	30	25		
Nov. 1	85	85	85	45	25	30	30	85	30	25		
1878—Jan. 28	85	85	85	45	25	30	30	85	30	25		
Mar. 25	85	85	85	45	25	30	25	85	30	25		
1882—Aug. 1	90	90	90	50	28	32	28	90	33	28		
Nov. 1	90	90	90	50	28	32	28	90	33	28		
1883—Jan. 1	90	90	90	50	28	32	28	90	33	28		
Apr. 16	90	90	90	50	28	32	28	90	33	28		
1884—June 2	90	90	90	50	30	35	30	90	35	30		
1885—Nov. 23	90	90	90	50	30	33½	30	90	33½	30		
1887—Aug. 1	90	90	90	50	30	33½	30	90	33½	30		
Dec. 30	75	55	75	40	25	28½	25	75	28½	25		
1888—Jan. 9	75	45	75	40	25	28½	25	75	28½	25		
Mar. 26	75	55	75	40	25	28½	25	75	28½	25		
Apr. 2	75	45	75	40	25	28½	25	75	28½	25		
1889—Jan. 10	75	45	75	40	25	28½	25	75	28½	25		
Apr. 1	75	45	75	40	25	28½	25	75	28½	25		
1890—Feb. 22	60	40	60	35	18	23½	18	60	23½	18		
Aug. 1	70	47	70	42	21	28	21	70	28	21		
1891—Jan. 1	75	47	75	42	25	30	25	75	30	25		
1892—Sept. 1	75	47	75	42	25	30	25	75	30	25		

*Per carload.

CHICAGO, ILL., TO KANSAS CITY, MO.

or carload quantities, they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																			
Rice.		Groceries.	Drugs.	Gunny, jute, and burlaps.		Leather.		Soap, common.		Nails.		Hardware.	Agricultural implements.		Machinery.		Beer.	
Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
94	94	131	131	131	131	131	131	94	94	112	112	112	Special		131	131	....	....
103	103	152	152	152	152	152	152	103	103	119	119	119	...do.....		152	152	.....	....
65	65	65	120	105	105	85	85	65	65	65	65	85	120	.....	120	Sp'l	.....	....
50	50	50	100	70	70	70	70	50	50	50	50	90	100	.do .	70	*$110	50	50
45	45	45	100	70	70	70	70	45	45	45	45	70	100	*$100	70	*$100	50	50
40	35	75	90	40	40	75	75	40	35	40	*$35	60	90	*$85	90	*$85	40	40
45	40	75	100	45	45	75	75	45	40	45	40	60	100	*$90	100	*$90	60	45
40	35	70	90	40	40	50	50	40	35	40	35	50	90	*$80	90	*$80	50	40
30	25	70	85	30	30	70	70	30	25	30	25	45	85	*$75	85	*$75	45	30
30	25	85	85	30	30	70	70	30	25	30	25	45	.....	37½	70	37½	45	30
30	30	85	85	30	30	70	70	30	30	30	30	45	.....	37½	70	37½	30	30
30	30	85	85	30	30	70	70	30	30	30	30	45	.....	37½	70	37½	45	30
30	25	85	85	30	30	70	70	30	25	30	25	45	.....	37½	70	37½	45	30
32	28	90	90	32	32	75	75	32	28	32	23	50	.....	37½	75	37½	50	30
32	28	90	90	32	32	75	75	32	28	32	25	75	.....	37½	75	37½	50	25
32	28	90	90	32	32	75	75	32	28	32	28	75	.....	37½	75	37½	50	25
32	28	90	90	32	32	75	75	32	28	32	28	75	.....	37½	75	37½	50	25.5
35	30	90	90	35	35	75	75	35	30	35	30	75	.....	32½	75	32½	50	28
33½	30	90	90	35	35	75	75	35	30	35	30	75	.....	32½	75	32½	50	28
33½	30	90	90	35	35	75	75	35	30	35	25	75	.....	32½	75	32½	50	28
28½	25	75	75	30	30	60	60	30	25	30	25	60	.....	30	60	30	40	24
28½	25	75	75	30	30	60	60	30	25	30	25	60	.....	30	60	30	40	24
28½	25	75	75	30	30	60	60	30	25	30	25	60	.....	30	60	30	40	24
28½	25	75	75	30	30	60	60	30	25	30	25	60	.....	30	60	30	40	24
28½	25	75	75	30	30	60	60	30	25	30	25	60	.....	30	60	30	40	25
28½	25	75	75	30	25	60	30	30	25	30	25	60	.....	30	60	30	40	25
23½	18	60	60	25	18	50	25	25	18	25	18	50	.....	25	50	25	35	18
28	21	70	70	28	21	58	28	28	21	28	21	58	.....	28	58	28	42	21
30	25	75	75	30	25	60	30	30	25	30	25	60	.....	30	60	30	42	25
30	25	75	75	30	25	60	30	30	25	30	25	60	.....	30	60	30	42	25

*Per carload.

RATES FROM ST. LOUIS TO MISSOURI RIVER POINTS.

Two tables following are given, the first table showing the rates on various classes from St. Louis to Missouri River points, and the second table showing the rates on a number of commodities between the same points. These tables are governed by the Western classification:

TABLE 64.—WEST-BOUND RATES, ST. LOUIS TO MISSOURI RIVER POINTS, VIA, KANSAS CITY, ST. JOSEPH, ATCHISON, AND LEAVENWORTH.

Date.	Classes (in cents per 100 pounds).									
	1.	2.	3.	4.	5.	A.	B.	C.	D.	E.
1877—Jan. 1	65	50	35	25	20	25	20	15	.....	.....
1882—Aug. 1	70	55	40	27	23	25	22	13	.....	.....
Nov. 1	70	55	40	27	23	25	22	13	13	.....
1884—June 2	70	55	40	30	25	25	22	13	13	.....
1887—Apr. 1	70	55	40	30	25	25	22	13	15	12
Aug. 1	70	55	40	30	25	25	22	13	15	11
Dec. 20	55	40	30	25	20	22½	17½	15	13½	11
1888—Jan. 9	55	40	30	25	20	22½	17½	10	10	10
Mar. 26	55	40	30	25	20	22½	17½	15	13½	11
1890—Feb. 22	40	30	25	20	13	17½	12½	10	9	8
Mar. 8	50	38	32	23	16	20½	15½	13	11	10
1891—Jan. 1	55	40	33	25	20	22½	17½	15	13½	11

TABLE 65.—RATES OF FREIGHT, ALL RAIL, FROM

[NOTE.—Where the rates shown are not specifically described as applying on less than

Date.	Commodities (rates in cents per 100 pounds)										
	Dry goods.	Cotton piece goods.	Boots and shoes.	Stoves.		Coffee.		Tea.	Sugar.		Molasses.	
				Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.
1883—Jan. 1	70	70	70	40	23	27	23	70	27	23	27	23
Apr. 16	70	70	70	40	23	27	23	70	27	23	27	23
1884—Mar. 1	70	70	70	40	23	27	23	70	27	23	27	23
June 2	70	70	70	40	25	30	25	70	30	25	30	25
1885—Nov. 23	70	70	70	40	25	28½	25	70	28½	25	28½	25
1886—July 1	70	70	70	40	25	28½	25	70	28½	25	28½	25
1887—Apr. 1	70	70	70	40	25	28½	25	70	28½	25	28½	25
Aug. 1	70	70	70	40	25	28½	25	70	28½	25	28½	25
Dec. 20	55	40	55	30	20	22½	20	55	22½	20	22½	20
1888—Jan. 9	55	30	55	30	20	22½	20	55	22½	20	22½	20
Mar. 26	55	40	55	30	20	22½	20	55	22½	20	22½	20
Apr. 2	55	30	55	30	20	22½	20	55	22½	20	22½	20
1889—Jan. 10	55	30	55	30	20	22½	20	55	22½	20	22½	20
Apr. 1	55	30	55	30	20	23½	20	55	22½	20	22½	20
1890—Feb. 22	40	25	40	25	13	18½	13	40	18½	13	18½	13
Aug. 1	50	32	50	32	16	13	16	50	22	16	22	16
1891—Jan. 1	55	33	55	33	20	28	20	55	26	20	26	20

ST. LOUIS, MO., TO KANSAS CITY, MO.

carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																	
Rice.		Groceries.	Drugs.	Crockery and earthen ware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Machinery.		Beer.	
Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.
27	23	70	70	27	23	27	27	55	55	27	18	27	23	55	55	25	.....	.....
27	23	70	70	27	23	27	27	55	55	27	23	27	23	55	55	25	40	21
27	23	70	70	27	22	27	27	55	55	27	23	27	23	55	55	25	40	21
30	25	70	70	30	22	30	30	55	55	30	25	30	25	55	55	25	40	24
28	25	70	70	30	22	30	30	55	55	30	25	30	25	55	55	25	40	24
28	25	70	70	30	20	30	30	55	55	30	25	30	25	55	55	25	40	24
28	25	70	70	30	25	30	30	55	55	30	12½	30	25	55	55	25	40	24
28	25	70	70	30	25	30	30	55	55	30	12½	30	20	55	55	25	40	24
23	20	55	55	25	20	25	25	40	40	25	12½	25	20	40	40	22½	30	20
23	20	55	55	25	20	25	25	40	40	25	12½	25	20	40	40	22½	30	20
23	20	55	55	25	20	25	25	40	40	25	12½	25	20	40	40	22½	30	20
23	20	55	55	25	20	25	25	40	40	25	12½	25	20	40	40	22½	30	20
23	20	55	55	25	20	25	20	40	25	25	12½	25	20	40	40	22½	30	20
18	13	40	40	20	13	20	13	30	20	20	12½	20	13	30	30	17½	23	13
23	18	50	50	23	16	23	16	38	23	23	12½	23	16	38	38	20½	33	16
25	20	55	55	25	20	25	20	40	25	25	12½	25	20	40	40	22½	33	20

RATES FROM ST. LOUIS, MO., TO ST. PAUL, MINN.

The following table presents the rates from 1883 to 1890, inclusive, on the traffic above indicated. Important reductions are shown to have taken place in the rates of each class. It will also be recalled that the Western classification, which governs this traffic, has been greatly reduced.

A second table covering the same points is given, which shows for an equal period the changes in the various important commodities.

TABLE 66.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND GRAIN FROM ST. LOUIS, MO., TO ST. PAUL, MINN., VIA ALL-RAIL LINES, FROM NOVEMBER 1, 1883.

[Governed by Western classification.]

Date.	Rates (in cents per 100 pounds).											
	1.	2.	3.	4.	5.	A.	B.	C.	D.	E.	Wheat.	Other grain.
1883—Nov. 1	75	60	40	30	25	25	20	17½	15	.....	20	20
1884—Apr. 1	60	45	35	25	20	25	20	17½	15	.....	20	17½
1885—Apr. 13	50	40	30	20	15	20	17½	15	12½	.....	17½	15
Nov. 16	60	45	35	22½	17½	22½	20	17½	15	.....	17½	15
1886—July 20	40	30	20	15	10	17½	15	12½	10	.....	15	15
Nov. 1	72	60	40	28	24	26	23	18	18	.....	17½	17½
1887—Apr. 1	84	73½	50½	34½	29½	31½	27½	24	21	.....	17½	19
June 16	79	63	47	31½	21	26	21	17	13½	12½	17½	19
Aug. 1	52½	42	31½	21	13	18	16	14	10½	8½	17½	19
Sept. 1	52½	42	31½	21	13	18	16	14	10½	8½	13	13
1888—June 4	63	52½	37	26	18	19	17	15	13	10½	13	13
July 19	63	52½	37	26	18	18½	16	15	13	10½	13	13
Oct. 10	63	52½	42	26	21	26	21	18	15	13½	13	13
Nov. 10	63	52½	42	26	21	26	21	18	15	13½	15	15
1889—Sept. 25	52	45½	28½	22	15	22	15	13	13	12	15	15
Sept. 26	63	52½	42	26	21	26	21	18	15	13½	15	15
Oct. 19	52	45½	28½	22	15	22	15	13	13	12	15	15
Nov. 1	55	45	30	25	15	22½	17½	15	13	12	15	15
Nov. 20	63	52½	42	26	21	26	21	18	15	13½	15	15
1890—Feb. 17	42	31½	23	18	13	18	16	12½	10½	10½	15	15
Aug. 1	52½	42	31½	21	16	21	16	13	11½	10½	15	15
Nov. 17	63	52½	42	26	19	26	19	16	13½	12½	15	15

TABLE 67.—RATES OF FREIGHT, ALL RAIL,

[NOTE.—Where the rates shown are not specifically described as applying on less

Date.	Commodities (rates in cents per 100 pounds).										
	Dry goods.	Cotton piece goods.	Boots and shoes.	Stoves.		Coffee.		Tea.	Sugar.		Molasses.	
				Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.
1883—Nov. 1	75	75	75	40	25	30	25	75	30	25	30	25
1884—Mar. 1	75	75	75	40	25	30	25	75	30	25	30	25
Apr. 1	60	60	60	35	20	25	20	60	25	20	25	20
1885—Apr. 13	50	50	50	30	15	20	15	50	20	15	20	15
Nov. 16	60	60	60	35	17½	22½	17½	60	22½	17½	22½	17½
1886—July 1	60	60	60	35	17½	22½	17½	60	22½	17½	22½	17½
July 20	40	40	40	20	10	15	10	40	15	10	15	10
Nov. 1	72	72	72	40	24	28	24	72	28	24	28	24
1887—Apr. 1	84	31½	84	50½	29½	34½	29½	84	34½	29½	34½	29½
June 16	79	31½	79	47	31½	31½	21	79	31½	21	31½	21
Aug. 1	52½	31½	52½	31½	13	21	13	52½	21	13	21	13
1888—June 4	63	35	63	37	18	26	18	63	26	18	26	18
July 19	63	35	63	37	18	26	18	63	26	18	26	18
Oct. 10	63	37	63	42	21	26	21	63	26	21	26	21
1889—Jan. 10	63	63	63	42	21	26	21	63	26	21	26	21
Apr. 1	63	63	63	42	21	26	21	63	26	21	26	21
Sept. 25	52	52	52	28½	15	22	15	52	22	15	22	15
Sept. 26	63	63	63	42	21	26	21	63	26	21	26	21
Oct. 19	52	52	52	28½	15	22	15	52	22	15	22	15
Nov. 1	55	55	55	30	15	25	15	55	25	15	25	15
Nov. 20	63	63	63	42	21	26	21	63	26	21	26	21
1890—Feb. 17	42	42	42	23	13	18	13	42	18	13	18	13
Aug. 1	52½	52½	52½	31½	16	21	16	52½	21	16	21	16
Nov. 17	63	63	63	42	19	26	19	63	26	19	26	19

FROM ST. LOUIS, MO., TO ST. PAUL, MINN.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																	
Rice.		Groceries.	Drug.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Machinery.		Beer.	
Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.
30	25	75	75	30	25	30	30	60	60	30	17½	30	25	60	60	25	.....	....
30	25	75	75	30	20	30	30	60	60	30	25	30	25	60	60	25	40	24
25	20	60	60	25	20	25	25	45	45	25	20	25	20	45	45	25	35	20
20	15	50	50	20	17½	20	20	40	40	20	15	20	15	40	40	20	30	16
22½	17½	60	60	22½	20	22½	22½	45	45	22½	17½	22½	17½	45	45	22½	35	18
22½	17½	60	60	22½	22½	22½	22½	45	45	22½	17½	22½	17½	45	45	22½	35	18
15	10	40	40	15	15	15	15	30	30	15	10	15	10	30	30	17½	20	12
28	24	72	72	28	28	28	28	60	60	28	24	28	24	60	60	26	40	22½
34½	29½	84	84	34½	29½	34½	34½	73½	73½	34½	29½	34½	29½	73½	73½	31½	50½	27½
31½	21	79	79	31½	21	31½	31½	63	63	31½	21	31½	21	63	63	26	47	25½
21	13	52½	52½	21	13	21	21	42	42	21	13	21	13	42	42	18	31½	16½
26	18	63	63	26	18	26	26	52½	52½	26	18	26	18	52½	52½	19	37	20½
26	18	63	63	26	18	26	26	52½	52½	26	18	26	18	52½	52½	18½	37	20½
26	21	63	63	26	21	26	26	52½	52½	26	21	26	21	52½	52½	26	42	20½
26	21	63	63	52½	21	26	26	52½	52½	26	21	26	21	52½	52½	26	42	21
26	21	63	63	26	21	26	21	52½	26	26	21	26	21	52½	52½	26	42	21
22	15	52	52	22	15	22	15	45½	22	22	15	22	15	45½	45½	22	28½	15
26	21	63	63	26	21	26	21	52½	26	26	21	26	21	52½	52½	26	42	21
22	15	52	52	22	15	22	15	45½	22	22	15	22	15	45½	45½	22	28½	15
25	15	55	55	25	15	25	15	45	25	25	15	25	15	45	45	22½	30	15
26	21	63	63	26	21	26	21	52½	26	26	21	26	21	52½	52½	26	42	21
18	13	42	42	18	13	18	13	31½	18	18	13	18	13	31½	31½	18	23	13
21	16	.....	52½	21	16	21	16	42	21	21	16	21	16	42	42	21	31½	16
26	19	.....	63	26	19	26	19	52½	26	26	19	26	19	52½	52½	26	42	19

RATES FROM ST. PAUL, MINN., TO ST. LOUIS, MO.

The following table gives the class rates from 1883 to the present time between St. Paul and St. Louis. The Western classification governs the rates shown in this table.

TABLE 68.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND GRAIN FROM ST. PAUL, MINN., TO ST. LOUIS, MO., VIA RAIL LINE FROM NOVEMBER, 1, 1883.

[Governed by Western classification.]

Date.	Rates (in cents per 100 pounds).											
	1	2	3	4	5	A	B	C	D	E	Wheat.	Other grain
1883—Nov. 1	75	60	40	30	25	25	20	17½	15	------	20	20
1884—Apr. 1	60	45	35	25	20	25	20	17½	15	------	20	20
1885—Apr. 13	50	40	30	20	15	20	17½	15	12½	------	17½	17½
Nov. 1	60	45	35	22½	17½	22½	20	17½	15	------	17½	17½
1886—July 20	45	35	25	20	15	20	17½	15	12½	------	17½	17½
Nov. 1	72	60	40	28	24	26	23	18	18	------	17½	17½
1887—Apr. 1	84	73½	50½	34½	29½	31½	27½	24	21	------	17½	17½
June 16	79	63	47	31½	21	26	21	17	13½	12½	17½	17½
Aug. 1	52½	42	31½	21	13	18	16	14	10½	8½	17½	17½
Sept. 1	52½	42	31½	21	13	18	16	14	10½	8½	13	13
1888—June 4	63	52½	37	26	18	19	17	15	13	10½	13	13
July 19	63	52½	37	26	18	18½	16	15	13	10½	13	13
Oct. 10	63	52½	42	26	21	26	21	18	15	13½	13	13
Nov. 10	63	52½	42	26	21	26	21	18	15	13½	15	15
1889—Jan. 1	63	52½	42	26	21	26	21	18	15	13½	16	16
1890—Aug. 1	63	52½	42	26	21	26	21	18	15	13½	16	16
Nov. 17	63	52½	42	26	19	26	19	16	13½	12½	16	16
1891—Jan. 1	63	52½	42	26	21	26	21	18	15	13½	16	*16
1893—Jan. 22	63	52½	42	26	21	26	21	18	15	13½	16	17

* Barley, 17 cents since February 3, 1891.

Table 69 here following shows the yearly average rates per bushel on wheat, flour, and barley, via Mississippi River steamers, from St. Paul to St. Louis since 1856:

TABLE 69.—AVERAGE FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF WHEAT, FLOUR, AND BARLEY, FROM ST. PAUL TO ST. LOUIS VIA MISSISSIPPI RIVER STEAMERS DURING EACH YEAR FROM 1856.

[Compiled from Reports of St. Louis Merchants' Exchange.]

Year.	Commodity. (Rates in cents per bushel.)			Year.	Commodity. (Rates in cents per bushel.)			Year.	Commodity. (Rates in cents per bushel.)		
	Wheat.	Flour.	Barley.		Wheat.	Flour.	Barley.		Wheat.	Flour.	Barley.
1856	18	60	14	1869	20	68	15	1888	9	30	7.2
1857	14	50	12	1870	18	60	15	1889	9	30	7.2
1858	14	50	11	1871	15	50	12	1890	6	20	4.8
1859	15	50	12	1872	15	50	12	1891	6	20	4.8
1860	16	52	12	1879	12	40	9.6	1892	7½	25	6
1861	15	50	12	1880	10.8	36	8.6				
1862	18	60	14	1881	10.8	36	8.6				
1863	19	62	14	1882	10.2	35	8.4				
1864	25	75	19	1883	10.2	35	8.4				
1865	24	73	19	1884	10.2	35	8.4				
1866	23	72	18	1885	10.2	35	8.4				
1867	21	70	16	1886	9	30	7.2				
1868	20	68	15	1887	9	30	7.2				

Data for the years 1873 to 1878, inclusive, not at hand.

RATES FROM MISSOURI RIVER POINTS TO CHICAGO.

The first table following shows the rates from principal Missouri River points to Chicago, from 1877 to the present time, both for classes and several important commodities. The class rates were governed by various classifications, all of which have been superseded by the Western classification.

The second table shows changes between the same points on some of the articles that are included in the first table, but in addition gives the changes in rates on packing-house products, and covers for all of the articles earlier dates than those given in the first table.

TABLE 70.—RATES OF FREIGHT CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES FROM ATCHISON, KANS., ST. JOSEPH, MO., KANSAS CITY, MO., AND LEAVENWORTH, KANS., TO CHICAGO, ILL., FROM JANUARY 2, 1877.

Date.	Rates (in cents per 100 pounds).													Rates per car.		
	1.	2.	3	4.	5.	6.	7.	8.	9.	10.	Wheat.	Rye and barley.	Corn and oats.	Cattle.	Hogs.	Sheep.
1877—Jan. 2	75	60	45	30	....	....	....	....	....	....	30	22½	22½	$67.50	$67.50	$50.00
May 1	75	60	45	30	....	....	....	....	....	....	30	25	25	70.00	70.00	50.00
July 12	75	60	45	30	....	....	....	....	....	....	28	21	21	67.50	67.50	50.00
Aug. 20	75	60	45	30	....	....	....	....	....	....	30	25	25	67.50	67.50	50.00
Nov. 1	75	60	45	30	....	....	....	....	....	....	30	25	25	67.50	67.50	45.00
1878—Jan. 12	75	60	45	25	....	....	....	....	....	....	30	20	20	67.50	67.50	45.00
Jan. 14	75	60	45	25	....	....	....	....	....	....	25	20	20	67.50	67.50	45.00
July 25	75	60	45	25	....	....	....	....	....	....	25	20	20	67.50	57.50	45.00
Nov. 18	75	60	45	31	....	....	....	....	....	....	25	20	20	67.50	57.50	45.00
Nov. 27	75	60	45	31	....	....	....	....	....	....	25	20	20	67.50	57.50	45.00
1879—Feb. 1	75	60	45	31	....	....	....	....	....	....	25	20	20	67.50	57.50	45.00
Feb. 10	75	60	45	26	....	....	....	....	....	....	25	20	20	67.50	57.50	45.00
Mar. 1	75	60	45	25	....	....	....	....	....	....	25	20	20	67.50	47.50	45.00
Nov. 1	75	60	45	26½	....	....	....	....	....	....	28	23	23	67.50	47.50	45.00
1880—Feb. 2	75	60	45	27	....	....	....	....	....	....	26½	21½	21½	67.50	47.50	45.00
Mar. 1	75	60	45	27	....	....	....	....	....	....	25½	20½	20½	67.50	47.50	45.00
Apr. 5 (new classification)	75	60	45	27	27	27	27	20½	25½	25½	25½	20½	20½	67.50	47.50	45.00
Apr. 14	75	60	45	27	27	27	25½	20	25½	25½	25	20	20	67.50	47.50	45.00
Apr. 21	75	60	45	27	27	27	25½	20	25½	25½	18	14	14	67.50	47.50	45.00
Apr. 24	75	60	45	27	27	27	25½	20	25½	25½	15	12	12	67.50	47.50	45.00
Sept. 29	75	60	45	27	27	27	25½	20	25½	25½	27½	22½	22½	67.50	47.00	45.00
Oct. 27	75	60	45	27	27	27	25½	20	25½	25½	25	20	20	67.50	47.50	45.00
Nov. 1	75	60	45	27	27	27	25½	20	25	25½	27½	22½	22½	67.50	47.50	45.00
Nov. 6	75	60	45	27	27	27	26½	20	25	25½	25	20	20	67.50	47.50	45.00
Nov. 22	75	60	45	27	27	27	26½	20	26½	25½	25½	20½	20½	67.50	47.50	45.00
1881—Jan. 1	75	60	45	27	27	27	26½	20½	25½	25½	25½	20½	20½	67.50	47.50	45.00
Mar. 8	75	60	45	27	27	27	26½	20½	27	25½	25½	20½	20½	67.50	47.50	45.00
Apr. 1	75	60	45	27	27	27	25½	20	26½	25	25	20	20	67.50	47.50	45.00
July 23	75	60	45	27	27	27	25	20	26	25	25	20	20	67.50	47.50	45.00
Nov. 7	75	60	45	27	27	27	25	20	26	25	25	20	20	60.00	47.50	45.00
1882—Jan. 2	75	60	45	27	27	27	25	20	26	25	25	20	20	60.00	45.00	45.00
Feb. 1	75	60	45	27	27	27	25	20	25	25	20	18	18	60.00	45.00	45.00
Mar. 15	75	60	45	27	27	27	25	19	25½	25	21	16½	16½	60.00	47.50	45.00
Apr. 1	75	60	45	27	27	27	25	20	25½	25	25	20	20	65.00	50.00	45.00
Aug. 1	75	60	45	27	27	27	25	20	25½	25	27½	22½	22½	65.00	50.00	45.00
Oct. 16	75	60	45	30	27	27	25	20	25½	25	25	20	20	65.00	50.00	45.00
Dec. 1	75	60	45	30	27	27	25½	20	26½	25½	25	20	20	65.00	50.00	45.00
1883—Jan. 1	75	60	45	30	27	27	25½	20	26½	25½	25	20	20	65.00	42.50	45.00

TABLE 70.—RATES OF FREIGHT CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES, ETC.—Continued.

	Rates (in cents per 100 pounds).													Rates per car.		
	1.	2.	3.	4.	5.	6.	A.	B.	C.	D.	Wheat.	Rye and barley.	Corn and oats.	Cattle.	Hogs.	Sheep.
1883—May 5 (new classification)	90	75	50	32	28	25	37½	32	23	23	25	20	20	$65.00	$42.50	$45 00
Nov. 12	90	75	50	32	28	25	37½	32	23	23	25	20	20	65.00	45.00	45 00
Dec. 17	90	75	50	32	28	25	37½	32	23	23	25	20	20	65.00	45.00	45 00
1884—Jan. 15	90	75	50	32	28	25½	37½	32	23	23	25	20	20	65.00	42.50	45 00
Mar. 15	90	75	50	32	28	25	37½	32	23	23	25	20	20	65.00	42.50	45 00
June 2	90	75	50	35	30	25	32½	29½	23	23	25	20	20	65.00	42.50	45 00
June 16	90	75	50	35	30	25	32½	29½	23	23	25	20	20	65.00	42.50	45 00
1886—Aug. 23	90	75	50	35	30	22½	32½	29½	23	23	25	20	20	65.00	42.50	45 00
1887—Jan. 1	90	75	50	35	30	25	32½	29½	23	23	25	20	20	65.00	42.50	45 00

	Rates (in cents per 100 pounds).												Rates per car.		
	1.	2.	3.	4.	5.	A.	B.	C.	D.	E.	Wheat.	Rye and barley.	Corn and oats.	Cattle.	Hogs.	Sheep.
1887—Apr. 1 (new classification)	90	75	50	35	30	32½	29½	23	20	16	25	20	20	$65.00	$55.00	$45 00
Aug. 1	90	75	50	35	30	32½	29½	23	20	16	22½	20	20	65.00	45.00	45 00
Dec. 20	75	60	40	30	25	30	25	20	17½	16	22½	20	20	60.00	45.00	45 00
1888—Jan. 9	75	60	40	30	25	30	25	15	15	15	22½	20	20	60.00	45.00	45 00
Mar. 26	75	60	40	30	25	30	25	20	17½	16	22½	20	20	60.00	45.00	45 00
Oct. 1	75	60	40	30	25	30	25	20	17½	16	22½	20	20	60.00	40.00	40 00
Oct. 25	75	60	40	30	25	30	25	20	17½	16	22½	20	20	*25½	*25	*25
1889—July 16	75	60	40	30	25	30	25	20	17½	16	22½	20	20	*22	*25	*25
Dec. 21	75	60	40	30	25	30	25	20	17½	16	22½	20	20	*18	*25	*25
1890—Jan. 25	75	60	40	30	25	30	25	20	17½	16	22½	20	20	*12½	*25	*25
Aug. 25	75	60	40	30	25	30	25	20	17½	16	22½	20	20	*22	*25	*25
Oct. 1	75	60	40	30	25	30	25	20	17½	16	20	20	17	*22	*25	*25
1891—Jan. 1	75	60	42	30	25	30	25	20	17½	16	20	20	17	*23½	*25	*25
Jan. 15	75	60	42	30	25	30	25	20	17½	16	23	20	(†)	*23½	*25	*25

* In cents per 100 pounds.

† Corn 19 cents, oats 20 cents.

TABLE 71.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF IMPORTANT COMMODITIES FROM KANSAS CITY, MO., TO CHICAGO, ILL., FROM MAY 25, 1869.

Date.	Live hogs per car.	In cents per 100 pounds.		
		Packing-house products.	Wheat.	Other grain.
1869—May 25	.....	.....	44	34
1871—July 1	.....	.....	40	35
Nov. 1	$94.00	.....	30	30
1874—Apr. 20	70.00	.....	30	30
1879—Jan. 17	57.50	31	25	20
Feb. 1	57.50	31	25	20
Mar. 1	47.50	25	25	20
Sept. 15	47.50	25	25	20
Oct. 16	47.50	26¼	25	20
Oct. 22	47.50	26¼	25	20
Nov. 10	47.50	26¼	28	23
1880—Apr. 17	47.50	25¼	25	20
Apr. 21	47.50	25¼	25	20
Apr. 24	47.50	25¼	23	20
Nov. 8	47.50	26¼	25	20
1881—Apr. 1	47.50	25¼	25	20
July 23	47.50	25	25	20
Dec. 20	47.50	25	25	20
1882—Feb. 1	45.00	25	20	18.2
Feb. 6	45.00	25	20	18.2
Mar. 13	47.50	25	21	18.1
Apr. 1	50.00	25	25	20
Nov. 27	50.00	25	25	20
Dec. 1	50.00	27	25	20
1883—Jan. 1	42.50	27	25	20
May 15	42.50	25	25	20
June 11	42.50	25	25	20
Dec. 17	45.00	25	25	20
1884—Jan. 15	42.50	25	25	20
1885—Jan. 1	42.50	25	25	20
1886—Jan. 1	42.50	25	25	20
Aug. 23	42.50	22½	25	20
Aug. 26	42.50	22½	25	20
1887—Jan. 1	42.50	22½	25	20
Jan. 10	42.50	25	25	20
1887—Feb. 1	$42.50	25	25	20
Feb. 15	42.50	25	25	20
Apr. 1	55.00	25	25	20
Aug. 1	45.00	25	22½	20
Dec. 20	45.00	20	22½	20
1888—Jan. 9	45.00	20	22½	20
Feb. 8	45.00	13	22½	10
Feb. 9	35.00	12½	22½	10
Feb. 16	30.00	13	22½	10
Feb. 27	30.00	11	22½	10
Mar. 1	30.00	10	22½	10
Mar. 26	45.00	20	22½	20
May 11	45.00	20	22½	20
June 29	40.00	20	22½	20
Oct. 1	40.00	20	22½	20
Oct. 15	37.50	20	22½	20
1889—Apr. 1	37.50	20	22½	20
May 25	37.50	20	22½	20
July 19	37.50	18	22½	20
Nov. 1	33.00	18	22½	20
1890—Mar. 3	33.00	18	22½	20
Apr. 22	33.00	12	22½	20
Aug. 25	37.50	18	22½	20
Oct. 1	37.50	18	20	*20
1891—Jan. 1	33.00	22	20	*20
Jan. 15	33.00	22	28	†20

*Corn and oats, 17 cents. †Corn, 19 cents.

RATES FROM MISSOURI RIVER POINTS TO ST. LOUIS, MO.

The following table shows the rates from the principal Missouri River points, such as Atchison, Kansas City, St. Joseph, and Leavenworth, to St. Louis, for classified traffic, the principal grain articles, and cattle, hogs, and sheep, the period covered being from 1877 to the present time. The freight classification governing these rates has changed at various times, and such changes have resulted in a lower classification of the articles taken under the class rates in this table. For the articles specially mentioned it may be seen exactly what changes have taken place.

The second table, although partially covering rates shown in the first, embraces also the rates for packing-house products, and shows the changes since January 17, 1879.

TABLE 72.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND VARIOUS COMMODITIES FROM ATCHISON, KANS., KANSAS CITY, MO., ST. JOSEPH, MO., AND LEAVENWORTH, KANS., TO ST. LOUIS, MO., VIA RAIL LINES, FROM JANUARY 2, 1877.

[Governed by Western classification.]

Date.	Rates (in cents per 100 pounds).													Rates per car.		
	1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	Wheat.	Corn and oats.	Rye and barley.	Cattle.	Hogs.	Sheep.
1877—Jan. 2	60	45	30	25	....	....	....	....	....	....	25	17½	17½	$50.00	$50.00	$37.50
May 1	60	45	30	25	....	....	....	....	....	....	25	18	18	50.00	50.00	37.50
June 1	60	45	30	25	....	....	....	....	....	....	25	18½	18½	50.00	50.00	37.50
July 12	60	45	30	25	....	....	....	....	....	....	23	16	16	50.00	50.00	37.50
Aug. 20	60	45	30	25	....	....	....	....	....	....	25	20	20	50.00	50.00	37.50
Sept. 7	60	45	30	25	....	....	....	....	....	....	24	19	19	50.00	50.00	37.50
Oct. 19	60	45	30	24	....	....	....	....	....	....	24	19	19	50.00	50.00	37.50
Nov. 1	60	45	30	24	....	....	....	....	....	....	24	19	19	50.00	50.00	37.50
1878—Jan. 12	60	45	30	20	....	....	....	....	....	....	24	16	16	50.00	50.00	37.50
Jan. 14	60	45	30	20	....	....	....	....	....	....	20	16	16	50.00	50.00	37.50
May 6	60	45	30	20	....	....	....	....	....	....	20	15	15	50.00	50.00	37.50
July 25	60	45	30	20	....	....	....	....	....	....	20	15	15	50.00	40.00	30.00
Nov. 18	60	45	30	25	....	....	....	....	....	....	20	15	15	50.00	40.00	30.00
Nov. 27	60	45	30	25	....	....	....	....	....	....	20	15	15	45.00	30.00	30.00
1879—Feb. 1	60	45	30	25	....	....	....	....	....	....	20	15	15	50.00	40.00	30.00
Feb. 10	60	45	30	20	....	....	....	....	....	....	20	15	15	50.00	40.00	30.00
1880—Apr. 5 (new classification)	60	45	30	20	20	20	20	15	22	20	20	15	15	50.00	40.00	30.00
Apr. 21	60	45	30	20	20	20	20	15	20	20	13	9	9	50.00	40.00	[illegible]
Apr. 24	60	45	30	20	20	20	20	15	20	20	10	7	7	50.00	40.00	[illegible]
Sept. 29	60	45	30	20	20	20	20	15	20	20	18	13	13	50.00	40.00	[illegible]
Oct. 27	60	45	30	20	20	20	20	15	20	20	20	15	15	50.00	40.00	[illegible]
Nov. 6	60	45	30	20	19	20	20	15	20	20	20	15	15	50.00	40.00	[illegible]
1881—Nov. 7	60	45	30	20	19	20	20	15	20	20	20	15	15	45.00	40.00	[illegible]
1882—Jan. 2	60	45	30	20	19	20	20	15	20	20	20	15	15	45.00	30.00	[illegible]
Feb. 1	60	45	30	20	19	20	20	15	20	20	17	15	15	45.00	30.00	[illegible]
Mar. 13	60	45	30	20	19	20	20	15	20	20	17	12½	12½	45.00	40.00	[illegible]
Apr. 1	60	45	30	20	19	20	20	15	20	20	20	15	15	47.50	40.00	[illegible]
Aug 1	60	45	30	20	19	20	20	15	20	20	22½	17½	17½	47.50	40.00	[illegible]
Oct. 16	60	45	30	23	19	20	20	15	20	20	20	15	15	47.50	40.00	[illegible]
1883—Jan. 1	60	45	30	23	19	20	20	15	20	20	20	15	15	47.50	30.00	[illegible]

Date.	Rates (in cents per 100 pounds).												Rates per car.		
	1.	2.	3.	4.	5.	6.	A.	B.	C.	D.	Wheat.	Corn and oats.	Rye and barley.	Cattle.	Hogs.	Sheep.
1883—May 15 (new classification)	70	55	40	27	23	20	25	22	18	16	20	15	15	$47.50	$30.00	$30.00
Nov. 12	70	55	40	27	23	20	25	22	18	18	20	15	15	47.50	32.50	[illegible]
Dec. 17	70	55	40	27	23	20	25	22	18	18	20	15	15	47.50	30.00	[illegible]
1884—June 2	70	55	40	30	25	20	25	22	18	18	20	15	15	47.50	30.00	[illegible]
June 16	70	55	40	30	25	20	25	22	18	18	20	15	15	47.50	30.00	[illegible]
1886—Aug. 23	70	55	40	30	25	20	25	22	18	18	20	15	15	47.50	30.00	[illegible]
1887—Jan. 1	70	55	40	30	25	20	25	22	18	18	20	15	15	47.50	30.00	[illegible]

TABLE 72.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND VARIOUS COMMODITIES, ETC.—Continued.

Date.	Rate (in cents per 100 pounds).													Rates per car.		
	1.	2.	3.	4.	5.	A.	B.	C.	D.	E.	Wheat.	Corn and oats.	Rye and barley.	Cattle.	Hogs.	Sheep.
1887—Apr. 5 (new classification)	70	55	40	30	25	25	22	18	15	12	20	15	15	$47.50	$35.00	30.00
Aug. 1	70	55	40	30	25	25	22	18	15	12	17½	15	15	47.50	30.00	30.00
Dec. 20	55	40	30	25	20	22½	17½	15	12½	11	17½	15	15	42.50	30.00	30.00
1888—Jan. 9	55	40	30	25	20	22½	17½	15	10	10	17½	15	15	42.50	30.00	30.00
Mar. 26	55	40	30	25	20	22½	17½	15	12½	11	17½	15	15	42.50	30.00	30.00
Oct. 1	55	40	30	25	20	22½	17½	15	12½	11	17½	15	15	42.50	25.00	25.00
Oct. 25	55	40	30	25	20	22½	17½	15	12½	11	17½	15	15	*18½	*15	*20
1889—July 19	55	40	30	25	20	22½	17½	15	12½	11	17½	15	15	*13½	*21½	*14½
Dec. 21	55	40	30	25	20	22½	17½	15	12½	11	17½	15	15	*9½	*21½	*14½
1890—Jan. 30	55	40	30	25	20	22½	17½	15	12½	11	17½	15	15	*7½	*21½	*14½
Aug. 25	55	40	30	25	20	22½	17½	15	12½	11	17½	15	15	*18½	*21½	*21½
Oct. 1	55	40	30	25	20	22½	17½	15	12½	11	15	12	15	*18½	*21½	*21½
1891—Jan. 15	55	40	30	25	20	22½	17½	15	12½	11	18	†14	15	*18½	*21½	*21½
1892—Aug. 1	55	40	30	25	20	22½	17½	15	12½	11	18	†14	15	*14½	*15	*17½

* Cents per 100 pounds. † Oats, 15 cents.

TABLE 73.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF GRAIN AND MEAT PRODUCTS FROM KANSAS CITY, MO., TO ST. LOUIS, MO., FROM JANUARY 17, 1879.

Date.	Cents per 100 pounds.			Date.	Cents per 100 pounds.			Date.	Cents per 100 pounds.		
	Packing-house products.	Wheat.	Other grain.		Packing-house products.	Wheat.	Other grain.		Packing-house products.	Wheat.	Other grain.
1879—Jan. 17	25	25	15	1883—June 11	20	20	15	1888—June 29	15	17½	15
Feb. 1	25	25	15	Dec. 17	20	20	15	Oct. 1	15	17½	15
Mar. 1	20	20	15	1884—Jan. 15	20	20	15	Oct. 15	15	17½	15
Sept. 15	20	20	15	1885—Jan. 1	20	20	15	1889—Apr. 1	15	17½	15
Oct. 16	20	20	15	1886—Jan. 1	20	20	15	May 25	15	17½	15
Oct. 22	20	20	15	Aug. 23	17½	20	15	July 19	13	17½	15
Nov. 10	20	20	15	Aug. 26	17½	20	15	Nov. 1	13	17½	15
1880—Apr. 17	20	20	15	1887—Jan. 1	17½	20	15	1890—Mar. 3	13	17½	15
Apr. 21	20	20	15	Jan. 10	20	20	15	Apr. 23	7	17½	15
Apr. 24	20	20	15	Feb. 1	20	20	15	Aug. 25	13	17½	15
Nov. 8	20	20	15	Feb. 15	20	20	15	Oct. 1	13	15	*15
1881—Apr. 1	20	20	15	Apr. 1	20	20	15	1891—Jan. 1	15	15	*15
July 23	20	20	15	Aug. 1	20	17½	15	Jan. 15	15	18	†15
Dec. 20	20	20	15	Dec. 20	15	17½	15				
1882—Feb. 1	20	17	15	1888—Jan. 9	15	17½	15				
Feb. 6	20	17	15	Feb. 8	9	17½	5				
Mar. 13	20	17	12½	Feb. 11	7½	17½	5				
Apr. 1	20	20	15	Feb. 16	6	17½	5				
Nov. 27	20	20	15	Feb. 27	6	17½	5				
Dec. 1	20	20	15	Mar. 1	6	17½	5				
1883—Jan. 1	20	20	15	Mar. 26	15	17½	15				
May 15	20	20	15	May 11	15	17½	15				

* Corn and oats, 12 cents. † Corn, 14 cents.

TABLE 67.—RATES OF FREIGHT, ALL RAIL,

[NOTE.—Where the rates shown are not specifically described as applying on les

Date.	Commodities (rates in cents per 100 pounds).										
	Dry goods.	Cotton piece goods.	Boots and shoes.	Stoves.		Coffee.		Tea.	Sugar.		Molasses
				Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.
1883—Nov. 1	75	75	75	40	25	30	25	75	30	25	30
1884—Mar. 1	75	75	75	40	25	30	25	75	30	25	30
Apr. 1	60	60	60	35	20	25	20	60	25	20	25
1885—Apr. 13	50	50	50	30	15	20	15	50	20	15	20
Nov. 16	60	60	60	35	17½	22½	17½	60	22½	17½	22½
1886—July 1	60	60	60	35	17½	22½	17½	60	22½	17½	22½
July 20	40	40	40	20	10	15	10	40	15	10	15
Nov. 1	72	72	72	40	24	28	24	72	28	24	28
1887—Apr. 1	84	31½	84	50½	29½	34½	29½	84	34½	29½	34½
June 16	79	31½	79	47	31½	31½	21	79	31½	21	31½
Aug. 1	52½	31½	52½	31½	13	21	13	52½	21	13	21
1888—June 4	63	35	63	37	18	26	18	63	26	18	26
July 19	63	35	63	37	18	26	18	63	26	18	26
Oct. 10	63	37	63	42	21	26	21	63	26	21	26
1889—Jan. 10	63	63	63	42	21	26	21	63	26	21	26
Apr. 1	63	63	63	42	21	26	21	63	26	21	26
Sept. 25	52	52	52	28½	15	22	15	52	22	15	22
Sept. 26	63	63	63	42	21	26	21	63	26	21	26
Oct. 19	52	52	52	28½	15	22	15	52	22	15	22
Nov. 1	55	55	55	30	15	25	15	55	25	15	25
Nov. 20	63	63	63	42	21	26	21	63	26	21	26
1890—Feb. 17	42	42	42	23	13	18	13	42	18	13	18
Aug. 1	52½	52½	52½	31½	16	21	16	52½	21	16	21
Nov. 17	63	63	63	42	19	26	19	63	26	19	26

FROM ST. LOUIS, MO., TO ST. PAUL, MINN.

than carload or carload quantities they apply on shipments regardless of quantity.]

Commodities (rates in cents per 100 pounds).																	
Rice.		Groceries.	Drugs.	Crockery and earthenware.		Bagging.		Leather.		Lead.		Nails.		Hardware.	Machinery.		Beer.	
Less than carloads.	Carloads.			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.
30	25	75	75	30	25	30	30	60	60	30	17½	30	25	60	60	25	.....	.....
30	25	75	75	30	20	30	30	60	60	30	25	30	25	60	60	25	40	24
25	20	60	60	25	20	25	25	45	45	25	20	25	20	45	45	25	35	20
20	15	50	50	20	17½	20	20	40	40	20	15	20	15	40	40	20	30	16
22½	17½	60	60	22½	20	22½	22½	45	45	22½	17½	22½	17½	45	45	22½	35	18
22½	17½	60	60	22½	22½	22½	22½	45	45	22½	17½	22½	17½	45	45	22½	35	18
15	10	40	40	15	15	15	15	30	30	15	10	15	10	30	30	17½	20	12
28	24	72	72	28	28	28	28	60	60	28	24	28	24	60	60	26	40	22½
34½	29½	84	84	34½	29½	34½	34½	73½	73½	34½	29½	34½	29½	73½	73½	31½	50½	27½
31½	21	79	79	31½	21	31½	31½	63	63	31½	21	31½	21	63	63	26	47	25½
21	13	52½	52½	21	13	21	21	42	42	21	13	21	13	42	42	18	31½	16
26	18	63	63	26	18	26	26	52½	52½	26	18	26	18	52½	52½	19	37	20½
26	18	63	63	26	18	26	26	52½	52½	26	18	26	18	52½	52½	18½	37	20½
26	21	63	63	26	21	26	26	52½	52½	26	21	26	21	52½	52½	26	42	20½
26	21	63	63	52½	21	26	26	52½	52½	26	21	26	21	52½	52½	26	42	21
26	21	63	63	26	21	26	21	52½	26	26	21	26	21	52½	52½	26	42	21
22	15	52	52	22	15	22	15	45½	22	22	15	22	15	45½	45½	22	28½	15
26	21	63	63	26	21	26	21	52½	26	26	21	26	21	52½	52½	26	42	21
22	15	52	52	22	15	22	15	45½	22	22	15	22	15	45½	45½	22	28½	15
25	15	55	55	25	15	25	15	45	25	25	15	25	15	45	45	22½	30	15
26	21	63	63	26	21	26	21	52½	26	26	21	26	21	52½	52½	26	42	21
18	13	42	42	18	13	18	13	31½	18	18	13	18	13	31½	31½	18	23	13
21	16	.....	52½	21	16	21	16	42	21	21	16	21	16	42	42	21	31½	16
26	19	.....	63	26	19	26	19	52½	26	26	19	26	19	52½	52½	26	42	19

RATES FROM ST. PAUL, MINN., TO ST. LOUIS, MO.

The following table gives the class rates from 1883 to the present time between St. Paul and St. Louis. The Western classification governs the rates shown in this table.

TABLE 68.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND GRAIN FROM ST. PAUL, MINN., TO ST. LOUIS, MO., VIA RAIL LINES FROM NOVEMBER, 1, 1883.

[Governed by Western classification.]

Date.	Rates (in cents per 100 pounds).											
	1	2	3	4	5	A	B	C	D	E	Wheat.	Other grain.
1883—Nov. 1	75	60	40	30	25	25	20	17½	15	------	20	15
1884—Apr. 1	60	45	35	25	20	25	20	17½	15	------	20	15
1885—Apr. 13	50	40	30	20	15	20	17½	15	12½	------	17½	15
Nov. 1	60	45	35	22½	17½	22½	20	17½	15	------	17½	15
1886—July 20	45	35	25	20	15	20	17½	15	12½	------	17½	15
Nov. 1	72	60	40	28	24	26	23	18	18	------	17½	15
1887—Apr. 1	84	73½	50½	34½	29½	31½	27½	24	21	------	17½	15
June 16	79	63	47	31½	21	26	21	17	13½	12½	17½	15
Aug. 1	52½	42	31½	21	13	18	16	14	10½	8½	17½	15
Sept. 1	52½	42	31½	21	13	18	16	14	10½	8½	13	15
1888—June 4	63	52½	37	26	18	19	17	15	13	10½	13	15
July 19	63	52½	37	26	18	18½	16	15	13	10½	13	15
Oct. 10	63	52½	42	26	21	26	21	18	15	13½	13	15
Nov. 10	63	52½	42	26	21	26	21	18	15	13½	15	15
1889—Jan. 1	63	52½	42	26	21	26	21	18	15	13½	16	16
1890—Aug. 1	63	52½	42	26	21	26	21	18	15	13½	16	16
Nov. 17	63	52½	42	26	19	26	19	16	13½	12½	16	16
1891—Jan. 1	63	52½	42	26	21	26	21	18	15	13½	16	*16
1893—Jan. 22	63	52½	42	26	21	26	21	18	15	13½	16	17

* Barley, 17 cents since February 3, 1891.

Table 69 here following shows the yearly average rates per bushel on wheat, flour, and barley, via Mississippi River steamers, from St. Paul to St. Louis since 1856:

TABLE 69.—AVERAGE FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF WHEAT, FLOUR, AND BARLEY, FROM ST. PAUL TO ST. LOUIS VIA MISSISSIPPI RIVER STEAMERS DURING EACH YEAR FROM 1856.

[Compiled from Reports of St. Louis Merchants' Exchange.]

Year.	Commodity. (Rates in cents per bushel.)			Year.	Commodity. (Rates in cents per bushel.)			Year.	Commodity. (Rates in cents per bushel.)		
	Wheat.	Flour.	Barley.		Wheat.	Flour.	Barley.		Wheat.	Flour.	Barley.
1856	18	60	14	1869	20	68	15	1888	9	30	7.2
1857	14	50	12	1870	18	60	15	1889	9	30	7.2
1858	14	50	11	1871	15	50	12	1890	6	20	4.8
1859	15	50	12	1872	15	50	12	1891	6	20	4.8
1860	16	52	12	1879	12	40	9.6	1892	7½	25	6
1861	15	50	12	1880	10.8	36	8.6				
1862	18	60	14	1881	10.8	36	8.6				
1863	19	62	14	1882	10.2	35	8.4				
1864	25	75	19	1883	10.2	35	8.4				
1865	24	73	19	1884	10.2	35	8.4				
1866	23	72	18	1885	10.2	35	8.4				
1867	21	70	16	1886	9	30	7.2				
1868	20	68	15	1887	9	30	7.2				

Data for the years 1873 to 1878, inclusive, not at hand.

RATES FROM MISSOURI RIVER POINTS TO CHICAGO.

The first table following shows the rates from principal Missouri River points to Chicago, from 1877 to the present time, both for classes and several important commodities. The class rates were governed by various classifications, all of which have been superseded by the Western classification.

The second table shows changes between the same points on some of the articles that are included in the first table, but in addition gives the changes in rates on packing-house products, and covers for all of the articles earlier dates than those given in the first table.

TABLE 70.—RATES OF FREIGHT CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES FROM ATCHISON, KANS., ST. JOSEPH, MO., KANSAS CITY, MO., AND LEAVENWORTH, KANS., TO CHICAGO, ILL., FROM JANUARY 2, 1877.

Date.	Rates (in cents per 100 pounds).													Rates per car.		
	1.	2.	3	4.	5.	6.	7.	8.	9.	10.	Wheat.	Rye and barley.	Corn and oats.	Cattle.	Hogs.	Sheep.
1877—Jan. 2	75	60	45	30	....	....	....	....	....	....	30	22½	22½	$67.50	$67.50	$50.00
May 1	75	60	45	30	....	....	....	....	....	....	30	25	25	70.00	70.00	50.00
July 12	75	60	45	30	....	....	....	....	....	....	28	21	21	67.50	67.50	50.00
Aug. 20	75	60	45	30	....	....	....	....	....	....	30	25	25	67.50	67.50	50.00
Nov. 1	75	60	45	30	....	....	....	....	....	....	30	25	25	67.50	67.50	45.00
1878—Jan. 12	75	60	45	25	....	....	....	....	....	....	30	20	20	67.50	67.50	45.00
Jan. 14	75	60	45	25	....	....	....	....	....	....	25	20	20	67.50	67.50	45.00
July 25	75	60	45	25	....	....	....	....	....	....	25	20	20	67.50	57.50	45.00
Nov. 18	75	60	45	31	....	....	....	....	....	....	25	20	20	67.50	57.50	45.00
Nov. 27	75	60	45	31	....	....	....	....	....	....	25	20	20	67.50	57.50	45.00
1879—Feb. 1	75	60	45	31	....	....	....	....	....	....	25	20	20	67.50	57.50	45.00
Feb. 10	75	60	45	26	....	....	....	....	....	....	25	20	20	67.50	57.50	45.00
Mar. 1	75	60	45	25	....	....	....	....	....	....	25	20	20	67.50	47.50	45.00
Nov. 1	75	60	45	26½	....	....	....	....	....	....	28	23	23	67.50	47.50	45.00
1880—Feb. 2	75	60	45	27	....	....	....	....	....	....	26½	21½	21½	67.50	47.50	45.00
Mar. 1	75	60	45	27	....	....	....	....	....	....	25½	20½	20½	67.50	47.50	45.00
Apr. 5 (new classification)	75	60	45	27	27	27	27	20½	25½	25½	25½	20½	20½	67.50	47.50	45.00
Apr. 14	75	60	45	27	27	27	25½	20	25½	25½	25	20	20	67.50	47.50	45.00
Apr. 21	75	60	45	27	27	27	25½	20	25½	25½	18	14	14	67.50	47.50	45.00
Apr. 24	75	60	45	27	27	27	25½	20	25½	25½	15	12	12	67.50	47.50	45.00
Sept. 29	75	60	45	27	27	27	25½	20	25½	25½	27½	22½	22½	67.50	47.00	45.00
Oct. 27	75	60	45	27	27	27	25½	20	25½	25½	25	20	20	67.50	47.50	45.00
Nov. 1	75	60	45	27	27	27	25½	20	25	25½	27½	22½	22½	67.50	47.50	45.00
Nov. 6	75	60	45	27	27	27	26½	20	25	25½	25	20	20	67.50	47.50	45.00
Nov. 22	75	60	45	27	27	27	26½	20	26½	25½	25½	20½	20½	67.50	47.50	45.00
1881—Jan. 1	75	60	45	27	27	27	26½	20½	25½	25½	25½	20½	20½	67.50	47.50	45.00
Mar. 8	75	60	45	27	27	27	26½	20½	27	25½	25½	20½	20½	67.50	47.50	45.00
Apr. 1	75	60	45	27	27	27	25½	20	26½	25	25	20	20	67.50	47.50	45.00
July 23	75	60	45	27	27	27	25	20	26	25	25	20	20	67.50	47.50	45.00
Nov. 7	75	60	45	27	27	27	25	20	26	25	25	20	20	60.00	47.50	45.00
1882—Jan. 2	75	60	45	27	27	27	25	20	26	25	25	20	20	60.00	45.00	45.00
Feb. 1	75	60	45	27	27	27	25	20	25	25	20	18	18	60.00	45.00	45.00
Mar. 13	75	60	45	27	27	27	25	19	25½	25	21	16½	16½	60.00	47.50	45.00
Apr. 1	75	60	45	27	27	27	25	20	25½	25	25	20	20	65.00	50.00	45.00
Aug. 1	75	60	45	27	27	27	25	20	25½	25	27½	22½	22½	65.00	50.00	45.00
Oct. 16	75	60	45	30	27	27	25	20	25½	25	25	20	20	65.00	50.00	45.00
Dec. 1	75	60	45	30	27	27	25½	20	26½	25½	25	20	20	65.00	50.00	45.00
1883—Jan. 1	75	60	45	30	27	27	25½	20	26½	25½	25	20	20	65.00	42.50	45.00

TABLE 77.—SHOWING THE HIGHEST AND LOWEST FREIGHT RATES AND THAT CONTINUING FOR THE LONGEST PERIOD DURING EACH YEAR, CHARGED FOR THE TRANPORTATION OF FLOUR, PORK, GRAIN, MEATS, AND HAY, FROM ST. LOUIS, MO., TO MEMPHIS, TENN., VICKSBURG, MISS., AND NEW ORLEANS, LA., VIA MISSISSIPPI RIVER STEAMERS, FROM 1866.

[Compiled from reports of St. Louis Merchants' Exchange.]

	Rates in cents.														
	Flour (per barrel).			Pork (per barrel).			Sack grain (per 100 pounds).			Meats (per 100 pounds).			Hay (per 100 pounds).		
	Memphis, Tenn.	Vicksburg, Miss.	New Orleans, La.	Memphis, Tenn.	Vicksburg, Miss.	New Orleans, La.	Memphis, Tenn.	Vicksburg, Miss.	New Orleans, La.	Memphis, Tenn.	Vicksburg, Miss.	New Orleans, La.	Memphis, Tenn.	Vicksburg, Miss.	New Orleans, La.
1866—Highest	60	.....	150	125	.....	200	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lowest	50	.....	40	75	.....	60	.....	.....	.....	.....	.....	.....	.....	.....	.....
Longest period	50	.....	70	75	.....	100	.....	.....	.....	.....	.....	.....	.....	.....	.....
1867—Highest	.....	.....	150	.....	.....	250	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lowest	.....	.....	40	.....	.....	60	.....	.....	.....	.....	.....	.....	.....	.....	.....
Longest period	.....	.....	140	.....	.....	150	.....	.....	.....	.....	.....	.....	.....	.....	.....
1868—Highest	.....	.....	100	.....	.....	175	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lowest	.....	.....	20	.....	.....	40	.....	.....	.....	.....	.....	.....	.....	.....	.....
Longest period	.....	.....	40	.....	.....	65	.....	.....	.....	.....	.....	.....	.....	.....	.....
1869—Highest	60	.....	75	100	.....	125	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lowest	30	.....	30	50	.....	50	.....	.....	.....	.....	.....	.....	.....	.....	.....
Longest period	30	.....	45	50	.....	70	.....	.....	.....	.....	.....	.....	.....	.....	.....
1870—Highest	75	.....	125	125	.....	125	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lowest	10	.....	35	40	.....	50	.....	.....	.....	.....	.....	.....	.....	.....	.....
Longest period	50	.....	50	75	.....	90	.....	.....	.....	.....	.....	.....	.....	.....	.....
1871—Highest	80	120	125	140	175	190	.....	.....	.....	.....	.....	.....	50	65	.....
Lowest	25	30	25	40	45	40	.....	.....	.....	.....	.....	.....	25	35	.....
Longest period	30	40	25	50	75	40	.....	.....	.....	.....	.....	.....	25	35	.....
1872—Highest	75	110	125	110	175	190	.....	.....	.....	.....	.....	.....	45	65	.....
Lowest	25	30	20	40	45	45	.....	.....	.....	.....	.....	.....	25	35	.....
Longest period	30	40	40	50	65	60	.....	.....	.....	.....	.....	.....	40	60	.....
1873—Highest	.....	.....	100	.....	.....	150	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lowest	.....	.....	25	.....	.....	37½	.....	.....	.....	.....	.....	.....	.....	.....	.....
Longest period	.....	.....	100	.....	.....	150	.....	.....	.....	.....	.....	.....	.....	.....	.....
1874—Highest	.....	.....	70	.....	.....	105	.....	.....	.....	.....	.....	.....	.....	.....	.....
Lowest	.....	.....	15	.....	.....	37½	.....	.....	.....	.....	.....	.....	.....	.....	.....
Longest period	.....	.....	35	.....	.....	50	.....	.....	.....	.....	.....	.....	.....	.....	.....
1875—Highest	80	80	75	120	125	108	.....	.....	.....	.....	.....	.....	40	60	.....
Lowest	20	20	20	30	30	30	.....	.....	.....	.....	.....	.....	15	15	.....
Longest period	25	40	40	60	75	60	.....	.....	.....	.....	.....	.....	30	35	.....
1876—Highest	80	90	80	115	132	132	.....	.....	.....	40	45	40	43	65	.....
Lowest	20	25	20	30	37½	30	.....	.....	.....	12½	12½	10	15	15	.....
Longest period	25	35	35	37½	50	50	.....	.....	.....	17½	17½	17½	22½	35	.....
1877—Highest	50	60	60	70	90	90	25	35	35	25	35	35	30	45	.....
Lowest	25	40	30	37½	60	52½	12½	20	15	12½	20	15	17½	25	.....
Longest period	30	40	40	45	60	60	15	20	20	15	20	20	20	30	.....
1878—Highest	100	100	70	150	150	75	50	50	35	50	50	35	30	35	.....
Lowest	15	20	20	30	30	30	7½	10	10	7½	10	10	15	15	.....
Longest period	15	20	20	30	30	30	7½	10	10	7½	10	10	15	15	.....
1879—Highest	45	70	60	60	105	90	20	35	30	20	35	30	25	40	.....
Lowest	20	25	20	30	45	30	10	15	10	10	15	10	15	20	.....
Longest period	25	35	25	37½	52½	37½	12½	17½	12½	12½	17½	12½	17½	25	.....
1880—Highest	45	60	50	60	90	75	51	30	25	20	30	25	25	35	.....
Lowest	25	40	30	30	60	45	12½	20	15	15	20	15	17½	25	.....
Longest period	40	40	30	60	60	45	20	20	15	20	20	15	25	35	.....
1881—Highest	45	60	50	67½	90	75	22½	30	25	22½	30	25	27½	35	.....
Lowest	30	40	30	45	60	45	15	20	15	15	20	15	20	25	.....
Longest period	30	60	45	45	90	67½	15	30	22½	17½	30	22½	20	35	.....
1882—Highest	35	60	50	52½	90	75	17½	30	25	17½	.....	.....	22½	25	.....
Lowest	25	40	40	45	60	60	12½	20	20	15	.....	.....	17½	25	.....
Longest period	25	40	40	45	60	60	12½	20	20	15	.....	.....	17½	25	.....
1883—Highest	35	50	45	52½	75	67½	17½	25	22½	17½	25	22½	22½	30	.....
Lowest	25	40	25	37½	60	37½	12½	20	12½	12½	20	12½	17½	25	.....
Longest period	25	40	50	37½	75	60	12½	25	20	12½	25	20	17½	30	.....
1884—Highest	30	45	45	35	67½	52½	15	22½	17½	15	22½	17½	20	27½	.....
Lowest	25	40	40	25	60	37½	13	20	12½	13	20	12½	17½	25	.....
Longest period	25	40	40	25	60	37½	13	20	12½	13	20	12½	18	25	.....
1885—Highest	30	45	35	45	67½	52½	15	22½	17½	15	22½	17½	17½	27½	.....
Lowest	30	45	30	45	67½	45	15	22½	15	15	22½	15	17½	27½	.....
Longest period	30	45	35	45	67½	52½	15	22½	17½	15	22½	17½	17½	27½	.....
1886—Highest	30	40	35	45	60	52½	15	20	17½	15	20	17½	17½	25	.....
Lowest	20	35	30	30	52½	45	10	17½	15	10	17½	15	15	20	.....
Longest period	24	35	35	36	52½	52½	12	17½	17½	12	17½	17½	15	20	.....

BLE 77.—SHOWING THE HIGHEST AND LOWEST FREIGHT RATES, ETC.—Continued.

[Compiled from reports of St. Louis Merchants' Exchange.]

	Rates in cents.														
	Flour (per barrel.)			Pork (per barrel.)			Sack grain (per 100 pounds.)			Meats (per 100 pounds.)			Hay (per 100 pounds.		
	Memphis, Tenn.	Vicksburg, Miss.	New Orleans, La.	Memphis, Tenn.	Vicksburg, Miss.	New Orleans, La.	Memphis, Tenn.	Vicksburg, Miss.	New Orleans, La.	Memphis, Tenn.	Vicksburg, Miss.	New Orleans, La.	Memphis, Tenn.	Vicksburg, Miss.	New Orleans, La.
87—Highest	40	40	40	60	60	60	20	20	20	20	20	20	25	25	22½
Lowest	20	35	35	30	52½	45	10	17½	15	10	17½	15	13	20	20
Longest period	20	40	35	30	60	52½	10	20	17½	10	20	17½	13	22½	22½
88—Highest	30	40	35	45	60	52½	15	20	17½	15	20	17½	17	20	20
Lowest	20	35	25	30	52½	37½	10	17½	12½	10	17½	12½	13	20	17½
Longest period	20	35	35	30	52½	37½	10	17½	12½	10	17½	12½	13	20	20
89—Highest	35	50	40	52½	75	60	17½	25	20	17½	25	20	22½	25	20
Lowest	20	40	35	37½	60	52½	10	17½	17½	10	20	17½	13	20	20
Longest period	25	40	35	37½	60	52½	11	17½	17½	12½	20	17½	13	20	20
90—Highest	25	40	35	37½	60	52½	12½	17½	17½	12½	17½	17½	15	20	20
Lowest	20	30	30	30	45	45	10	15	15	10	15	15	12½	17½	17½
Longest period	20	40	30	30	52½	45	10	17½	15	10	17½	15	12½	20	17½
91—Highest	40	50	40	60	75	60	20	25	20	20	25	20	22½	27½	22½
Lowest	20	35	30	30	52½	45	10	17½	15	10	17½	15	12½	20	17½
Longest period	20	35	30	30	52½	45	10	17½	15	10	17½	15	12½	20	17½
92—Highest	40	50	40	60	75	60	20	25	20	20	25	20	22½	34	22½
Lowest	20	35	30	30	52½	45	10	17½	15	10	17½	15	12	20	17½
Longest period	20	35	35	30	52½	52½	10	17½	17½	10	17½	17½	12	20	20

TABLE 78.—STATEMENT SHOWING THE NUMBER OF BUSHELS OF THE DIFFERENT VARIETIES OF BULK GRAIN AND THE TOTAL OF ALL GRAIN SHIPPED FROM ST. LOUIS TO NEW ORLEANS VIA MISSISSIPPI RIVER BOATS DURING EACH YEAR FROM 18[illegible]

[Compiled from reports of St. Louis Merchants' Exchange.]

Year.	Wheat.	Corn.	Rye.	Oats.	Total.
	Bushels.	*Bushels.*	*Bushels.*	*Bushels.*	*Bushels.*
1870	66,000	----------	----------	----------	[illegible]
1871	----------	309,077	----------	3,000	[illegible]
1872	----------	1,711,039	----------	----------	1,[illegible]
1873	----------	1,373,969	----------	----------	1,[illegible]
1874	365,252	1,047,794	----------	10,000	1,[illegible]
1875	135,961	172,617	----------	----------	[illegible]
1876	37,142	1,737,237	----------	----------	1,[illegible]
1877	351,453	3,578,057	171,843	----------	4,[illegible]
1878	1,876,639	2,857,056	609,041	108,867	5,[illegible]
1879	2,390,837	3,585,589	157,424	30,928	6,[illegible]
1880	5,913,272	9,804,392	45,000	----------	15,[illegible]
1881	4,197,981	8,640,720	22,423	132,823	12,[illegible]
1882	5,637,391	2,529,712	15,994	150,320	8,[illegible]
1883	1,435,043	9,029,509	205,430	389,826	11,[illegible]
1884	1,318,688	4,496,785	344,864	487,221	6,[illegible]
1885	50,000	8,189,039	86,093	401,787	8,[illegible]
1886	743,439	7,501,730	----------	598,755	8,[illegible]
1887	3,973,737	7,365,340	----------	217,722	11,[illegible]
1888	1,247,952	5,844,042	----------	160,584	7,[illegible]
1889	1,651,950	12,398,955	17,432	89,707	14,[illegible]
1890	1,409,440	8,717,849	----------	89,960	10,[illegible]
1891	6,940,215	1,482,731	45,600	----------	8,[illegible]
1892	5,149,708	3,228,645	----------	36,857	8,[illegible]

RATES ON CLASSIFIED TRAFFIC AND COMMODITIES BETWEEN VARIOUS SOUTHERN POINTS.

An effort has been made to procure the changes between such points in the territory south of the Ohio River as will represent the principal competitive traffic. The Southern Railway and Steamship Association classification applies throughout this section. This classification is so arranged that the lower or lettered classes embrace only one commodity, the tables are accordingly worded to show these articles separately and the changes which have taken place in the rates of each.

ABLE 79.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, ST. LOUIS, MO., TO CHATTANOOGA, TENN., FROM JANUARY 15, 1879.

Date.	Rates (in cents per 100 pounds).												Rates (in cents per barrel.)	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Jan. 15	95	83	72	46	41	39	32	42	41	38	42	.....	76	115
Apr. 1	95	83	72	46	41	39	37	42	41	38	42	46	76	115
Sept. 19	98	86	75	56	48	42	41	37	35	31	41	56	61	131
Nov. 15	98	86	75	56	48	42	46	42	40	36	41	56	71	146
1880—Apr. 8	101	87	74	60	51	40	36	44	41	37	50	61	75	160
Sept. 1	107	94	80	69	56	45	30	44	41	37	48	65	77	132
1881—May 5	107	94	80	69	56	45	36	44	41	37	48	65	77	132
Sept. 1	90	80	70	61	52	44	37	40	35	33	52	61	68	129
Oct. 1	87	78	70	61	52	43	26	38	34	32	50	59	65	117
Nov. 25	87	78	70	61	52	43	36	43	39	37	55	64	75	133
1882—Jan. 1	87	78	70	61	52	43	36	43	39	37	50	59	75	133
Apr. 12	102	90	75	60	52	43	31	38	34	30	42	50	61	109
July 10	102	90	75	60	32	43	31	33	29	25	42	50	51	99
1883—May 1	119	102	84	66	55	44	31	42	22	30	48	55	61	126
June 15	119	102	84	66	55	44	31	42	32	30	48	55	61	122
1884—Feb. 17	111	94	81	66	54	43	27	35	30½	27	44	53	57	103
Mar. 3	112	95	82	66	54	43	27	35	30½	27	44	53	57	103
Apr. 10	95	88	81	63	52	43	27	24	29½	24	42	48	51	99
1885—Feb. 18	104	88	77	62	52	43	27	34	28½	24	42	48	51	84
July 15	104	88	77	62	52	43	27	34	29	24	42	48	52	84
1887—July 15	106	90	79	64	54	45	29	36	32	26	44	50	56	*36
1888—Jan. 23	104	88	77	62	52	43	27	34	30	24	42	48	52	*34
Sept. 30	104	88	77	62	52	43	27	34	30	24	42	47	52	*34
1889—Oct. 14	104	88	77	62	52	40	27	34	30	24	42	43	52	*34
Mar. 1	104	88	77	61	52	40	27	34	32	26	42	43	56	*34
1891—Mar. 31	104	88	77	61	52	40	27	34	30	24	42	43	52	*34

*Cents per 100 pounds.

TABLE 80.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, ST. LOUIS, MO., TO ATLANTA, GA., FROM SEPTEMBER 19, 1879.

Date.	Rates (in cents per 100 pounds).											Rates in cents per barrel.	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	[illegible]
1879—Sept. 19	133	115	97	79	66	52	49	58	54	49	58	.....	88	[illegible]
Nov. 15	133	115	97	79	66	52	54	58	59	54	58	79	107	[illegible]
1880—Apr. 8	133	115	97	79	66	52	47	58	53	48	65	80	97	[illegible]
Sept. 1	140	123	105	90	72	54	33	55	51	45	61	84	88	[illegible]
1881—Sept. 1	118	105	92	80	68	57	47	51	45	42	67	81	87	[illegible]
Oct. 1	115	103	92	80	68	56	34	48	43	40	64	75	83	[illegible]
Nov. 25	115	103	92	80	68	56	40	53	48	45	69	80	88	[illegible]
1882—Jan. 1	115	103	92	80	68	56	40	53	48	45	64	75	83	[illegible]
Apr. 12	130	115	97	79	68	56	41	51	46	42	61	66	84	[illegible]
July 10	130	115	97	79	68	56	39	44	39	35	59	66	70	[illegible]
Sept. 1	153	132	110	87	72	57	39	57	42	40	63	73	80	[illegible]
1883—May 1	153	132	110	87	72	57	39	50	42	40	63	73	80	[illegible]
June 15	153	132	110	87	72	57	39	50	42	40	63	73	80	[illegible]
July 15	153	132	110	87	72	57	39	48	40	38	61	71	78	[illegible]
1884—Feb. 17	145	124	107	87	71	56	35	46	39½	36	58	70	75	[illegible]
Mar. 3	146	125	108	87	71	56	35	46	39½	36	58	70	75	[illegible]
Apr. 10	135	115	101	82	68	56	35	44	38½	32	56	63	67	[illegible]
1885—Feb. 18	135	115	101	82	68	56	35	44	37½	32	56	63	67	[illegible]
July 15	135	115	101	82	68	56	35	44	38	32	56	63	68	[illegible]
1887—July 15	137	117	103	84	70	58	37	46	40	34	58	65	73	[illegible]
1888—Jan. 23	135	115	101	82	68	56	35	44	38	32	56	63	68	[illegible]
1891—Oct. 15	135	115	101	82	68	56	35	43	35	29	56	63	62	[illegible]

* Cents per 100 pounds.

TABLE 81.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, ST. LOUIS, MO., to CHARLESTON, S. C., AND SAVANNAH, GA., FROM JANUARY 15, 1879.

Date.	Rate (in cents per 100 pounds).												Rates (in cents per barrel).	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Jan. 15	207	167	135	84	83	72	64	64	62	56	64	.....	112	220
Apr. 1	162	127	100	63	61	52	59	62	60	54	62	73	108	210
Sept. 19	165	130	103	73	59	50	57	60	60	55	65	70	104	206
Nov. 15	165	130	103	73	59	50	67	70	70	65	65	70	124	236
1880—Feb. 1	165	130	103	73	59	50	62	65	65	60	60	70	114	220
Apr. 8	165	125	100	85	70	60	63	65	60	55	70	70	104	223
Sept. 1	165	125	100	85	70	60	53	55	52	50	70	75	94	183
1881—Apr. 15	165	125	100	85	70	60	61	58	47	47	73	78	88	199
May 5	165	125	100	85	70	60	61	58	52	52	73	78	96	199
Sept. 1	145	120	100	85	70	60	49	53	47	44	70	83	91	169
Nov. 25	131	108	90	77	63	53	46	46	42	42	67	71	82	150
1882—Apr. 20	130	115	97	79	68	56	50	45	41	37	51	51	74	126
July 10	130	115	97	79	68	56	50	40	36	32	51	51	64	120
Sept. 1	130	110	97	84	71	57	50	49	44	42	64	84	84	147
1883—May 1	130	110	97	84	71	57	50	42	37	36	51	51	70	126
June 15	130	110	97	84	71	57	46	42	37	36	51	51	70	122
1884—Feb. 17	122	102	94	84	70	56	42	40	36½	30	48	50	69	118
Mar. 3	123	103	95	84	70	56	42	40	36½	30	48	69	69	118
Apr. 10	123	103	95	84	70	56	42	40	36½	30	48	50	63	118
1885—Feb. 18	123	103	95	84	70	56	42	40	35½	30	48	63	63	99
July 15	123	103	95	84	70	56	42	40	35½	30	48	50	63	99
Nov. 2	123	103	95	84	70	56	42	40	36	30	48	50	64	99
1887—July 15	125	105	97	86	72	58	44	42	38	32	50	52	68	*42
1888—Jan. 23	123	103	95	84	70	56	42	40	36	30	48	50	64	*40
Sept. 20	123	103	95	84	70	56	42	40	31	25	48	50	54	*40
1889—Oct. 14	123	103	95	84	70	56	42	43	37	31	48	50	66	*43
1890—Mar. 1	123	103	95	84	70	56	42	43	39	33	48	50	70	*43
1891—Oct. 15	123	103	95	84	70	56	42	43	34	28	48	50	60	*43

* Cents per 100 pounds.

TABLE 82.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, ST. LOUIS, MO., TO JACKSONVILLE, FLA., FROM JANUARY 15, 1879.

Date.	Rates (in cents per 100 pounds).												Rates in cents per barrel.	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Jan. 15	238	192	154	96	95	87	72	75	72	65	75	------	120	
Jan. 15	213	167	129	81	80	72	57	65	62	55	65	------	110	
Apr. 1	193	152	119	75	73	67	67	73	70	63	73	------	126	
Sept. 19	165	130	103	73	59	50	47	50	50	45	55	60	84	
Nov. 15	165	130	103	73	59	50	57	60	60	55	55	60	104	
1880—Apr. 8	165	125	100	85	70	60	58	60	55	50	65	70	94	
Sept. 1	165	125	100	85	70	60	53	60	57	55	78	78	105	
1881—May 5	175	134	108	92	76	65	66	63	57	57	78	83	108	
Sept. 1	155	129	108	92	76	65	54	58	62	49	75	88	101	
Nov. 25	141	117	98	84	69	58	51	51	47	47	72	76	92	
1882—Apr. 20	140	124	105	86	74	61	55	50	46	42	56	56	84	
July 10	140	124	105	86	74	61	55	50	46	42	56	56	84	
Sept. 1	140	119	105	91	77	62	55	54	49	47	69	68	94	
1883—May 1	140	119	105	91	77	62	55	47	42	41	56	56	80	
1884—Jan. 15	140	119	105	91	77	62	51	47	42	41	56	56	80	
Feb. 17	132	111	102	91	76	61	47	45	41	35	53	55	79	
Mar. 3	133	112	103	91	76	61	47	45	41½	35	53	55	79	
Apr. 10	123	103	95	84	70	56	42	40	36½	30	48	50	83	
1885—Feb. 18	123	103	95	84	70	56	42	40	35½	30	48	50	83	
July 15	125	103	95	84	70	56	42	40	36	30	48	50	64	
1887—July 15	123	105	97	86	72	58	44	42	38	32	50	52	66	
1888—Jan. 23	123	103	95	84	70	56	42	40	36	30	48	50	64	
1889—Oct. 14	123	103	95	84	70	56	42	43	37	31	48	50	66	
1890—Mar. 1	123	103	95	84	70	56	42	43	39	33	48	50	70	
1891—Oct. 15	123	103	95	84	70	56	42	43	34	28	48	50	80	

* Cents per 100 pounds.

TABLE 83.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, CHICAGO, ILL., TO CHATTANOOGA, TENN., FROM APRIL 1, 1879.

Date.	Rates (in cents per 100 pounds).												Rates (in cents per barrel).	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Apr. 1	115	100	86	58	51	48	46	50	48	45	50	58	90	137
Sept. 19	115	100	86	65	55	48	45	42	39	35	46	65	70	141
Nov. 15	115	100	86	65	55	48	50	47	44	40	46	65	80	156
1880—Apr. 8	118	101	85	69	58	46	40	49	45	41	55	70	83	172
Sept. 1	124	108	91	78	63	51	34	49	45	41	53	74	86	142
1881—May 5	124	108	91	78	63	51	42	49	45	41	53	74	86	142
Oct. 1	101	91	80	69	59	48	30	42	37	34	57	67	72	125
Nov. 25	101	91	80	69	59	48	42	47	42	39	62	72	82	141
1882—Jan. 1	101	91	80	60	59	48	42	47	42	39	57	67	82	141
Apr. 12	117	100	83	66	56	47	35	42	38	34	46	54	69	121
July 10	117	100	83	66	56	47	35	37	33	29	46	54	59	111
1883—May 3	134	112	92	72	59	48	35	46	36	34	52	59	69	138
June 15	134	112	92	72	59	48	35	46	36	34	52	59	69	134
1884—Feb. 17	134	112	92	72	59	48	35	41	35	32	51	58	64	119
Apr. 10	126	105	87	68	57	48	35	40	34	29	49	53	58	115
1885—Feb. 18	126	105	87	68	55	46	33	40	34	29	49	53	58	102
1886—Mar. 1	126	105	87	68	55	46	33	40	34	29	49	53	58	*40
1887—Jan. 23	116	99	82	65	55	45	32	38	34	29	47	53	58	*38
Sept. 30	116	99	82	65	55	45	32	38	34	29	47	52	58	*38
1889—Oct. 14	116	99	82	65	55	42	32	38	34	29	47	48	58	*38
1890—Mar. 1	116	99	82	64	55	42	32	38	35	31	47	48	62	*38
1891—Mar. 31	116	99	82	64	55	42	32	38	33	29	47	48	58	*38

* Cents per 100 pounds.

TABLE 84.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, CHICAGO, ILL., TO ATLANTA, GA., FROM SEPTEMBER 19, 1879.

Date.	Rates (in cents per 100 pounds).												Rates (in cents per barrel).	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Sept. 19	150	129	108	88	73	58	58	58	58	53	63	88	106	98
Nov. 15	150	129	108	88	73	58	58	63	63	58	63	.....	116	
Sept 8	150	129	108	88	73	58	51	63	57	52	70	.....	105	
1880—Sept. 1	155	135	116	99	79	60	56	61	56	49	68	.....	106	
1881—May 5	155	135	116	99	79	60	43	61	56	49	68	92	105	
Oct. 1	129	116	102	88	75	61	38	52	46	42	71	83	90	
Nov. 25	129	116	102	88	75	61	43	57	51	47	76	88	100	
1882—Jan. 1	129	116	102	88	75	61	43	57	51	47	71	83	100	
Apr. 12	145	125	105	85	72	60	45	55	50	46	65	72	93	
July 10	145	125	105	85	72	60	43	43	43	39	63	70	78	
Sept. 1	168	142	118	93	76	61	43	61	46	44	67	83	88	
1883—May 1	168	142	118	93	76	61	43	54	46	44	67	77	86	
June 15	168	142	118	93	76	61	43	54	46	44	67	77	88	
July 15	168	142	118	93	76	61	43	52	44	42	65	75	84	
1884—Feb. 17	168	142	118	93	76	61	43	52	44	41	65	75	82	
Apr. 10	157	132	111	88	73	61	43	50	43	37	63	68	74	
1885—Feb. 18	157	132	111	88	71	59	41	50	43	37	63	68	74	
1886—Mar. 1	157	132	111	88	71	59	41	50	43	37	63	68	74	
1888—Jan. 15	147	126	106	85	71	58	40	48	42	37	61	68	74	
1889—Oct. 14	147	126	106	85	71	58	40	50	44	39	63	70	78	
1890—Mar. 1	147	126	106	85	71	58	40	48	41	37	61	68	74	
1891—Oct. 15	147	126	106	85	71	58	40	47	38	34	61	68	68	

* Cents per 100 pounds.

TABLE 85.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, CHICAGO, ILL., TO CHARLESTON S. C., AND SAVANNAH, Ga., FROM APRIL 1, 1879.

Date.	Rates (in cents per 100 pounds).												Rates (in cents per barrel).	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Apr. 1	162	127	100	63	61	52	59	62	60	54	62	73	108	210
Sept. 19	162	127	100	70	56	47	54	57	57	52	52	67	99	194
Nov. 15	162	127	100	63	61	52	64	67	67	62	62	67	119	224
1880—Feb. 1	162	127	100	70	56	47	59	62	62	57	57	62	109	208
Apr. 8	162	127	97	82	67	57	60	62	57	52	67	72	99	211
Sept. 1	162	122	97	82	67	57	50	52	49	47	67	72	89	171
1881—Apr. 15	162	122	97	82	67	57	58	55	44	44	70	75	83	187
May 5	162	122	97	82	67	57	58	55	49	49	70	75	93	187
Oct. 1	142	117	97	82	67	57	46	50	44	41	67	80	86	157
Nov. 25	142	117	97	82	67	57	47	47	42	42	70	75	84	150
1882—Apr. 20	145	125	105	85	72	60	54	49	45	41	55	55	82	138
July 10	145	125	105	85	72	60	54	44	40	36	55	72	72	132
Sept. 1	145	120	105	90	75	61	54	53	48	46	68	68	92	159
1883—May 1	145	120	105	90	75	61	54	46	41	40	55	78	78	138
June 15	145	120	105	90	75	61	54	46	41	40	55	55	78	134
1884—Feb. 17	145	120	105	90	75	61	50	46	35	40	55	55	76	134
Mar. 3	145	120	105	90	75	61	50	46	41	35	55	55	76	134
Apr. 10	145	120	105	90	75	61	50	46	41	35	55	55	70	134
1885—Feb. 18	145	120	105	90	73	59	48	46	41	35	55	55	70	115
July 15	145	120	105	90	73	59	48	46	41	35	55	55	70	117
1886—Mar. 1	145	120	105	90	73	59	48	46	41	35	55	55	70	*46
1888—Jan. 23	135	114	100	87	73	58	47	44	40	35	53	55	70	*44
Sept. 30	135	114	100	87	73	58	47	44	35	30	53	55	60	*44
1889—Oct. 14	135	114	100	87	73	58	47	47	40	36	53	55	72	*47
1890—Mar. 1	135	114	100	87	73	58	47	47	42	38	53	55	76	*47
1891—Oct. 15	126	114	100	87	73	58	47	47	37	33	53	55	66	*47

*Cents per 100 pounds.

TABLE 86.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, CHICAGO, ILL., TO JACKSONVILLE, FLA., FROM APRIL 1, 1879.

Date.	Rates (in cents per 100 pounds).												Rates in cents per barrel.	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Apr. 1.....	193	152	119	75	73	67	67	73	70	63	73	85	126	*
Sept. 19.....	162	127	100	70	56	47	44	47	47	42	52	57	79	
Nov. 15.....	162	127	100	70	56	47	54	57	57	52	52	57	89	
1880—Sept. 1.....	162	122	97	82	67	57	50	57	54	52	75	75	100	
Sept. 8.....	162	122	97	82	67	57	55	57	52	47	62	67	89	
1881—May 5.....	172	131	105	89	73	62	63	60	54	54	75	80	105	
Oct. 1.....	152	126	105	89	73	62	51	55	49	46	72	83	96	
Nov. 25.....	152	126	105	89	73	62	52	52	47	47	75	80	94	
1882—Apr. 20.....	155	134	113	92	78	65	59	54	50	46	60	60	92	
July 10.....	155	134	113	92	78	65	59	54	50	46	60	60	92	
Sept. 1.....	155	129	113	97	81	66	59	58	53	51	73	73	102	
1883—May 1.....	155	129	113	97	81	66	59	51	46	45	60	60	88	
June 15.....	155	129	113	97	81	66	55	51	46	45	60	60	88	
1884—Feb. 17.....	155	129	113	97	81	66	55	51	46	40	60	60	86	
Apr. 10.....	145	120	105	90	75	61	50	46	41	35	55	55	79	
1885—Feb. 18.....	145	120	105	90	73	59	48	46	41	35	55	55	79	
July 15.....	145	120	105	90	73	59	48	46	41	35	55	55	79	
1886—Mar. 1.....	145	120	105	90	73	59	48	46	41	35	55	55	79	
1888—Jan. 23.....	135	114	100	87	73	58	47	44	40	35	53	55	77	
1889—Oct. 14.....	135	114	100	87	73	58	47	47	40	36	53	55	77	
1890—Mar. 1.....	135	114	100	87	73	58	47	47	42	38	53	55	78	
1891—Oct. 15.....	135	114	100	87	73	58	47	47	37	33	53	55	68	

* Cents per 100 pounds.

TABLE 87.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, CINCINNATI, OHIO, TO CHATTANOOGA, TENN., FROM APRIL 1, 1879.

Date.	Rates (in cents per 100 pounds).												Rates (in cents per barrel).	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Apr. 1	95	83	72	46	41	39	37	42	41	38	42	46	76	115
Sept. 19	95	83	72	53	45	39	38	34	32	28	38	53	56	119
Nov. 15	95	83	72	53	45	39	43	39	37	33	38	53	66	134
1880—Apr. 8	78	67	57	45	58	28	26	33	31	27	39	46	55	128
Sept. 1	84	74	63	54	43	33	20	33	31	27	37	50	58	98
1881—May 5	84	74	63	54	43	33	24	33	31	27	37	50	58	98
Sept. 1	67	60	53	46	39	32	24	27	24	22	37	43	47	82
Oct. 1	67	60	53	46	39	32	20	28	25	23	38	45	48	84
Nov. 25	67	60	53	46	39	32	24	33	30	28	43	50	58	100
1882—Jan. 1	67	60	53	46	39	32	24	33	30	28	38	45	58	100
Apr. 12	67	60	53	46	39	32	20	28	26	23	31	39	47	83
July 10	67	60	53	46	39	32	20	23	21	18	31	39	37	69
1883—May 1	84	72	62	52	42	33	20	32	24	23	37	44	47	96
1884—Feb. 17	84	72	62	52	42	33	20	27	23	22	36	44	44	81
Mar. 3	84	72	62	52	42	33	20	27	23	22	36	43	44	81
Apr. 10	76	65	57	48	40	33	20	26	22	19	34	38	38	77
1885—Feb. 18	76	65	57	48	40	33	20	26	22	19	34	38	38	62
1886—Mar. 1	76	65	57	48	40	33	20	26	22	19	34	38	38	*26
1887—July 15	76	65	57	48	40	33	20	26	23	19	34	38	38	*26
1888—Sept. 30	76	65	57	48	40	33	20	26	23	19	34	37	38	*26
1889—Oct. 14	76	65	57	48	40	30	20	26	23	19	34	33	38	*26
1890—Mar. 1	76	65	57	47	40	30	20	26	25	21	34	33	42	*26
1891—Mar. 31	76	65	57	47	40	30	20	26	23	19	34	33	38	*26

*Cents per 100 pounds.

TABLE 88.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, CINCINNATI, OHIO, TO ATLANTA, GA., FROM SEPTEMBER 19, 1879.

Date.	(Rates (in cents per 100 pounds).												Rates (in cents per barrel.	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Sept. 19.....	130	112	94	76	63	49	46	50	51	46	55	76	92	[illegible]
Nov. 15.....	130	112	94	76	63	49	51	55	56	51	55	76	102	[illegible]
1880—Apr. 8.....	110	95	80	64	53	40	37	47	43	38	54	65	77	[illegible]
Sept. 1.....	119	104	89	76	61	46	28	47	43	38	52	71	81	[illegible]
1881—May 5.....	119	104	89	76	61	46	36	50	46	40	55	75	86	[illegible]
Sept. 1.....	95	85	75	65	55	45	34	38	34	31	52	61	68	[illegible]
Oct. 1.....	95	85	75	65	55	45	28	38	34	31	52	61	68	[illegible]
Nov. 25.....	95	85	75	65	55	45	34	43	39	36	57	66	76	[illegible]
1882—Jan. 1.....	95	85	75	65	55	45	36	44	40	37	53	62	73	[illegible]
Apr. 12.....	95	85	75	65	55	45	30	41	38	35	50	57	70	[illegible]
July 10.....	95	85	75	65	55	45	28	34	31	28	48	55	56	[illegible]
Sept. 1.....	118	102	88	73	59	46	28	47	34	33	52	62	66	[illegible]
1883—May 1.....	118	102	88	73	59	46	28	40	34	33	52	62	66	[illegible]
July 15.....	118	102	88	73	59	46	28	38	32	31	50	60	62	[illegible]
1885—Feb. 18.....	107	92	81	68	56	46	28	36	31	27	48	53	54	[illegible]
1891—Oct. 15.....	107	92	81	68	56	46	28	35	28	24	48	53	46	[illegible]

*Cents per 100 pounds.

.BLE 89.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, CINCINNATI, OHIO, TO CHARLESTON, S. C., AND SAVANNAH, GA., FROM APRIL 1, 1879.

Date.	Rates (in cents per 100 pounds).												Rates (in cents per barrel).	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
78—Apr. 1	142	112	88	56	55	45	53	60	58	52	60	66	104	202
Sept. 19	154	121	94	68	54	45	52	55	55	50	60	65	95	187
Nov. 15	154	121	94	68	54	45	62	65	65	60	60	65	115	217
80—Feb. 1	154	121	94	68	54	45	57	60	60	55	55	60	105	201
Sept. 1	146	110	88	74	60	51	45	47	43	43	61	.....	81	157
Sept. 8	142	105	85	70	57	48	53	54	50	45	59	60	85	160
81—Apr. 15	146	110	88	74	60	51	53	50	40	40	64	69	75	173
May 5	146	110	88	74	60	51	53	50	45	45	64	69	85	173
Sept. 1	129	107	88	74	60	51	36	40	36	33	55	65	70	123
Nov. 25	112	93	78	66	53	44	38	38	35	35	58	62	69	124
82—Jan. 1	112	93	78	66	53	44	38	38	35	35	58	69	60	124
Apr. 20	95	85	75	65	55	45	35	35	33	30	40	40	60	100
July 10	95	85	75	65	55	45	35	30	28	25	40	40	50	90
Sept. 1	95	80	75	70	58	46	35	39	36	35	52	52	70	117
83—May 1	95	80	75	70	58	46	35	32	29	29	40	40	56	96
84—Feb. 17	95	80	75	70	58	46	35	32	29	25	40	40	56	96
85—Feb. 17	95	80	75	70	58	46	35	32	29	25	40	40	50	77
86—Mar. 1	95	80	75	70	58	46	35	32	29	25	40	40	50	*32
88—Sept. 30	95	80	75	70	58	46	35	52	24	20	40	40	40	*32
1889—Oct. 14	95	80	75	70	58	46	35	35	30	26	40	40	52	*35
1890—Mar. 1	95	80	75	70	58	46	35	35	32	28	40	40	56	*35
1891—Oct. 15	95	80	75	70	58	46	35	35	27	23	40	40	46	*35

*Cents per 100 pounds.

TABLE 90.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, CINCINNATI, OHIO, TO JACKSONVILLE, FLA., FROM APRIL 1, 1879.

Date.	Rates (in cents per 100 pounds).												Rates in cents per barrel.	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	[illegible]
1879—Apr. 1.....	173	127	107	68	67	60	61	71	68	61	71	78	122	[illegible]
Sept. 19.....	154	121	94	68	54	45	42	45	45	40	50	55	[illegible]	
Nov. 15.....	154	121	94	68	54	45	52	55	55	50	50	55	[illegible]	
1880—Feb. 1.....	154	121	94	68	54	45	52	55	55	50	50	55	[illegible]	
Apr. 8.....	142	105	83	70	57	48	48	49	45	40	54	55	[illegible]	
Sept. 1.....	146	110	88	74	60	51	45	52	50	48	60	60	[illegible]	
1881—May 5.....	156	119	96	81	66	56	58	55	50	50	60	74	[illegible]	
Sept. 1.....	139	116	96	81	67	56	41	45	41	38	60	70	[illegible]	
Nov. 25.....	122	102	86	73	59	49	43	43	40	40	63	67	[illegible]	
1882—Apr. 20.....	105	94	83	72	61	50	44	40	38	35	45	45	[illegible]	
July 10.....	105	94	83	72	61	50	44	40	38	35	45	45	[illegible]	
Sept. 1.....	105	89	83	77	64	51	40	44	41	40	57	57	[illegible]	
1883—May 1.....	105	89	83	77	64	51	40	37	34	34	40	45	[illegible]	
June 15.....	105	89	83	77	64	51	40	37	34	34	45	45	[illegible]	
1884—Feb. 17.....	105	89	83	77	64	51	40	37	34	30	45	45	[illegible]	
Apr. 10.....	95	80	75	70	58	46	35	32	29	25	40	40	[illegible]	
1885—Feb. 18.....	95	80	75	70	58	46	35	32	29	25	40	40	[illegible]	
1886—Mar. 1.....	95	80	75	70	58	46	35	32	29	25	40	40	[illegible]	
1888—Oct. 14.....	95	80	75	70	58	46	35	35	30	28	40	40	[illegible]	
1890—Mar. 1.....	95	80	75	70	58	46	35	35	32	28	40	40	[illegible]	
1891—Oct. 15.....	95	80	75	70	58	46	35	35	27	23	40	40	[illegible]	

* Cents per 100 pounds.

TABLE 91.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, LOUISVILLE, KY., TO CHATTANOOGA, TENN., FROM AUGUST 27, 1878.

Date.	Rates (in cents per 100 pounds).												Rates (in cents per barrel).	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1878—Aug. 27	100	95	80	55	45	....	38	38	34	35	.....	.....	70	110
1879—Jan. 15	75	66	58	34	31	30	25	34	34	31	34	.....	62	93
Apr. 1	75	66	58	34	31	30	30	34	34	31	34	34	62	93
Sept. 19	75	66	58	41	35	30	31	26	25	21	30	41	42	97
Nov. 15	75	66	58	41	35	30	36	31	30	26	30	41	52	112
1880—Apr. 8	78	67	57	45	38	28	26	33	31	27	39	46	55	128
Sept. 1	84	74	63	54	43	33	20	33	31	27	37	50	58	98
1881—May 5	84	74	63	54	43	33	24	33	31	27	37	50	58	98
Sept. 1	67	60	53	46	39	32	24	37	24	22	37	43	47	82
Oct. 1	67	60	53	46	39	32	20	28	25	23	38	45	48	84
Oct. 5	67	60	53	46	39	32	24	33	30	28	43	50	58	100
1882—Jan. 1	67	60	53	46	39	32	24	33	30	28	38	45	58	100
Apr. 12	67	60	53	46	39	32	20	28	26	23	31	39	47	83
July 10	67	60	53	46	39	32	20	23	21	18	31	39	37	69
1883—May 1	84	72	62	52	42	33	20	32	24	23	37	44	47	96
1884—Feb. 17	84	72	62	52	42	33	20	27	23	22	36	43	44	81
Apr. 10	76	65	57	48	40	33	20	26	22	19	34	38	38	77
1885—Feb. 18	76	65	57	48	40	33	20	26	22	19	34	38	38	62
Mar. 1	76	65	57	48	40	33	20	26	22	19	34	38	38	*26
1887—July 15	76	65	57	48	40	33	20	26	23	19	34	38	37	*26
1888—Sept. 30	76	65	57	48	40	33	20	26	23	19	34	37	38	*26
1889—Oct. 14	76	65	57	48	40	30	20	26	23	19	34	33	38	*26
1890—Mar. 1	76	65	57	47	40	30	20	26	25	21	34	33	42	*26
1891—Mar. 31	76	65	57	47	40	30	20	26	23	19	34	33	38	*26

* Cents per 100 pounds.

TABLE 92.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, LOUISVILLE, KY., TO ATLANTA, GA., FROM JULY 15, 1870.

Date.	Rates (in cents per 100 pounds).												Rates in cents per barrel.	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1870—July 15	161	134	114	84	64	....	.....	84	87	57	.....	.....	.....	
1871—Feb. 25	150	125	100	85	58	....	.....	85	78	.....	.....	.....	.....	
1878—Jan. 7	106	94	82	48	44	....	.....	48	45	44	.....	.....	.....	
July 1	.....	.....	.....	.....	.....	.....	.....	33	33	30	.....	.....	.....	
1879—Jan. 15	119	104	79	71	56	41	.....	48	49	44	.....	.....	.....	
Sept. 19	110	95	80	64	53	40	39	42	44	39	47	64	78	
Nov. 15	110	95	80	64	53	40	44	47	49	44	47	64	88	
1880—Sept. 1	119	104	89	76	61	46	28	47	43	38	52	71	81	
Sept. 8	110	95	80	64	53	40	37	47	43	38	54	65	71	
1881—May 5	119	104	89	76	61	46	36	50	46	40	50	75	86	
Sept. 1	95	85	75	65	55	45	34	38	34	31	52	61	66	
Oct. 1	95	85	75	65	55	45	28	38	34	31	52	61	66	
Nov. 25	95	85	75	65	55	45	36	44	40	37	58	67	78	
1882—Jan. 1	95	85	75	65	55	45	36	44	40	37	53	62	78	
Apr. 12	95	85	75	65	55	45	30	41	38	35	50	57	70	
July 10	95	85	75	65	55	45	28	34	31	28	48	55	56	
Sept. 1	118	102	88	73	59	46	28	47	34	33	52	62	66	
1883—May 1	118	102	88	73	59	46	28	40	34	33	52	62	66	
July 15	118	102	88	73	59	46	28	38	32	31	50	60	62	
1884—Mar. 3	118	102	88	73	59	46	28	38	32	31	50	60	62	
Apr. 10	107	92	81	68	56	46	28	36	31	27	48	53	54	
1885—Feb. 18	107	92	81	68	56	46	28	36	31	27	48	53	54	
1891—Oct. 15	107	92	81	68	56	46	28	35	28	24	48	53	48	

* Cents per 100 pounds.

TABLE 93.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, LOUISVILLE, KY., TO CHARLESTON, S. C., AND SAVANNAH, GA., FROM JANUARY 15, 1879.

Date.	Rates (in cents per 100 pounds).												Rates (in cents per barrel).	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Jan. 15	156	123	97	61	61	50	42	54	53	46	54	.....	93	188
Apr. 1	142	110	86	51	51	43	52	54	53	47	54	61	94	188
Sept. 19	142	110	86	58	46	38	47	49	50	45	54	55	85	172
Nov. 15	142	110	86	58	46	38	56	59	60	55	54	66	105	202
1880—Feb. 1	142	110	86	58	46	38	52	54	55	50	49	50	95	186
Apr. 8	142	105	83	70	57	48	53	54	50	45	59	60	85	189
Sept. 1	146	110	88	74	60	51	45	47	43	43	61	66	81	157
1881—Apr. 15	146	110	88	74	60	51	53	50	45	45	64	69	85	173
May 5	146	110	88	74	60	51	53	50	45	45	64	69	85	173
Sept. 1	129	107	88	74	60	51	36	40	36	33	55	65	70	122
Nov. 25	112	93	78	66	53	44	38	38	35	35	58	62	69	124
1882—Apr. 20	95	85	75	65	55	45	35	35	33	30	40	40	60	100
July 10	95	85	75	65	55	45	35	30	28	25	40	40	50	90
Sept. 1	95	80	75	70	58	46	35	39	36	35	52	52	70	117
1883—May 1	95	80	75	70	58	46	35	33	29	29	40	40	56	96
1884—Feb. 17	95	80	75	70	58	46	35	32	29	25	40	40	56	96
Apr. 10	95	80	75	70	58	46	35	32	29	25	40	40	50	96
1885—Feb. 18	95	80	75	70	58	46	35	32	29	25	40	40	50	77
1886—Mar. 1	95	80	75	70	58	46	35	32	29	25	40	40	50	*32
1888—Sept. 30	95	80	75	70	58	46	35	32	24	20	40	40	40	*32
1889—Oct. 14	95	80	75	70	58	46	35	35	30	26	40	40	52	*35
1890—Mar. 1	95	80	75	70	58	46	35	35	32	28	40	40	56	*35
1891—Oct. 15	95	80	75	70	58	46	35	35	27	23	40	40	46	*35

*Cents per 100 pounds.

TABLE 94.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, LOUISVILLE, KY., TO JACKSONVILLE, FLA., FROM JANUARY 15, 1879.

Date.	Rates (in cents per 100 pounds).												Rates in cents per barrel.	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	[illegible]
1879—Jan. 15.....	187	148	116	73	73	65	50	65	62	55	65	.....	110	[illegible]
Apr. 1.....	173	135	105	63	63	58	60	65	63	56	65	73	112	
Sept. 19.....	142	110	86	58	46	38	37	39	40	35	44	45	65	
Nov. 15.....	142	110	86	58	46	38	47	49	50	45	44	45	85	
1880—Sept. 8.....	142	105	83	70	57	48	48	49	45	40	54	55	75	
Sept. 1.....	146	110	88	74	60	51	45	52	50	48	69	69	92	
1881—Sept. 1.....	139	110	96	81	67	56	41	45	41	38	60	70	93	
Nov. 25.....	122	102	86	73	59	49	43	43	40	40	63	67	79	
1882—Apr. 20.....	105	94	83	72	61	50	44	40	38	35	45	45	70	
July 10.....	105	94	83	72	61	50	44	40	38	35	45	45	70	
Sept. 1.....	105	89	83	77	64	51	40	44	41	40	57	57	80	
1883—May 1.....	105	89	83	77	64	51	40	37	34	34	45	45	68	
1884—Feb. 17.....	105	89	83	77	64	51	40	37	34	30	45	45	68	
Apr. 10.....	95	80	75	70	58	46	35	32	29	25	40	40	58	
1885—Feb. 18.....	95	80	75	70	58	46	35	32	29	25	40	40	58	
1886—Mar. 1.....	95	80	75	70	58	46	35	32	29	25	40	40	58	
1889—Oct. 14.....	95	80	75	70	58	46	35	35	30	26	40	40	52	
1890—Mar. 1.....	95	80	75	70	58	46	35	35	32	28	40	40	58	
1891—Oct. 15.....	95	80	75	70	58	46	35	35	27	23	40	40	46	[illegible]

[illegible] Cents per 100 pounds.

BLE 95.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, NASHVILLE TO CHATTANOOGA, TENN., FROM APRIL 1, 1879.

Date.	Rates (in cents per 100 pounds).												Rates (in cents. per barrel).	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
79—Apr. 1.....	63	49	44	22	21	21	23	26	27	24	26	22	48	71
Sept. 19.....	55	49	44	29	25	21	24	18	18	14	22	29	28	75
Nov. 15.....	55	49	44	29	25	21	29	23	23	19	22	29	38	90
80—Apr. 8.....	58	50	43	33	28	19	19	25	24	20	31	34	41	106
Sept. 1.....	44	39	33	29	24	17	10	18	16	14	19	26	30	51
81—May 5.....	44	39	33	29	24	17	12	18	16	14	19	26	30	51
Sept. 1.....	47	43	39	34	29	23	17	19	17	15	29	31	33	60
Oct. 1.....	43	39	34	30	25	21	12	19	17	15	25	30	32	55
Nov. 25.....	43	39	34	30	25	21	12	24	22	20	30	35	42	71
82—Jan. 1.....	43	39	34	30	25	21	12	24	22	20	25	30	42	71
Apr. 12.....	32	30	28	24	21	19	12	20	18	16	17	18	33	43
July 10.....	32	30	28	24	21	19	12	15	13	11	17	18	23	45
83—May 1.....	49	42	37	30	24	20	12	24	16	16	23	25	33	72
June 15.....	49	42	37	30	24	20	12	24	16	16	22	23	33	72
84—Feb. 17.....	49	42	37	30	24	20	12	19	15	15	21	22	30	57
Apr. 10.....	41	35	32	26	22	20	12	18	14	12	19	17	24	53
85—Feb. 18.....	41	35	32	26	22	20	12	18	15	14	19	17	28	43
86—Mar. 1.....	41	35	32	26	22	20	12	18	15	14	19	17	28	*18
87—July 15.....	41	35	32	26	22	20	12	18	18	14	19	17	28	*18
89—Oct. 14.....	41	35	32	26	22	17	12	18	18	14	19	15	28	*18
90—Mar. 1.....	41	35	32	25	22	17	12	18	20	16	19	15	32	*18
91—Mar. 31.....	41	35	32	25	22	17	12	18	18	14	19	15	28	*18

* Rate per 100 pounds.

TABLE 96.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, NASHVILLE, TENN., TO ATLANTA, GA., FROM SEPTEMBER 19, 1879.

Date.	Rates (in cents per 100 pounds).												Rates in cents per barrel.	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beer and [illegible] in barrels.
1879—Sept. 19.....	90	78	66	52	43	31	32	34	37	32	39	52	[illegible]	[illegible]
Nov. 15.....	90	78	66	52	43	31	37	39	42	37	39	52	[illegible]	[illegible]
1880—Apr. 8.....	90	78	66	52	43	31	30	39	36	31	46	52	[illegible]	[illegible]
Sept. 1.....	84	74	63	54	43	33	30	34	31	27	37	50	[illegible]	[illegible]
1881—May 5.....	84	74	63	54	43	33	26	37	34	26	40	54	[illegible]	[illegible]
Sept. 1.....	75	68	61	53	45	36	37	30	27	24	44	49	[illegible]	[illegible]
Oct. 1.....	71	64	56	49	41	34	20	29	26	23	39	46	[illegible]	[illegible]
Nov. 25.....	71	64	56	49	41	34	24	34	31	28	44	51	[illegible]	[illegible]
1882—Jan. 1.....	71	64	56	49	41	34	24	34	31	28	39	46	[illegible]	[illegible]
Apr. 12.....	68	61	54	46	39	32	22	33	30	28	36	41	[illegible]	[illegible]
July 10.....	68	61	54	46	39	32	22	28	25	23	36	34	[illegible]	[illegible]
Sept. 1.....	93	72	63	51	41	33	20	33	26	26	37	41	[illegible]	[illegible]
1883—May 1.....	83	72	63	51	41	33	20	33	26	26	37	41	[illegible]	[illegible]
June 15.....	83	72	63	51	41	33	20	30	24	24	35	39	[illegible]	[illegible]
1884—Apr. 10.....	72	62	56	46	38	33	20	28	23	20	33	33	[illegible]	[illegible]
1885—Feb. 18.....	72	62	56	46	38	33	20	28	23	20	33	33	[illegible]	[illegible]
1887—July 1.....	72	62	56	46	38	33	20	28	24	20	33	33	[illegible]	[illegible]
1891—Oct. 15.....	72	62	56	46	38	33	20	27	21	17	33	33	24	[illegible]

* Cents per 100 pounds.

.BLE 97.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, NASHVILLE, TENN., TO CHARLESTON, S. C., AND SAVANNAH, GA., FROM APRIL 1, 1879.

Date.	Rates (in cents per 100 pounds).												Rates (in cents per barrel).	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
79—Apr. 1	122	93	73	39	39	34	45	46	46	40	46	49	89	166
Sept. 19	122	93	73	46	36	29	40	41	43	33	46	43	71	150
Nov. 15	122	93	73	46	36	29	40	41	43	33	37	33	71	148
80—Feb. 1	122	93	73	46	36	29	45	46	43	43	41	38	81	164
Apr. 8	122	93	67	58	47	39	46	46	43	33	51	48	71	167
Sept. 1	126	93	74	62	50	42	38	39	36	36	53	54	67	135
81—Apr. 15	126	93	74	62	50	42	46	42	33	33	56	57	61	151
May 5	126	93	74	62	50	42	46	42	33	33	56	57	71	151
Sept. 1	109	90	74	62	50	42	29	32	26	26	47	53	56	100
Nov. 25	92	76	64	54	43	35	31	30	26	26	50	50	55	102
82—Apr. 20	72	65	57	50	42	34	27	27	25	23	31	31	46	76
July 10	72	65	57	50	42	34	27	22	20	18	31	31	36	66
Sept. 1	72	60	57	55	45	35	27	31	26	26	43	43	56	93
83—May 1	72	60	57	55	45	35	27	24	23	22	31	31	42	72
84—Mar. 3	72	60	57	55	45	35	27	24	23	19	31	31	42	73
Apr. 10	72	60	57	55	45	35	27	24	23	19	31	31	38	73
85—Feb. 18	72	60	57	55	45	35	27	24	23	19	31	31	38	58
86—Mar. 1	72	60	57	55	45	35	27	24	23	19	31	31	38	*24
88—Sept. 30	72	60	57	55	45	35	27	24	19	15	31	31	30	*24
89—Oct. 14	72	60	57	55	45	35	27	23	20	31	31	39	21	*23
90—Mar. 1	72	60	57	55	45	35	27	27	25	21	31	31	42	*27
91—Oct. 15	72	60	57	55	45	35	27	27	21	17	31	31	34	*27

* In cents per 100 pounds.

TABLE 98.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, NASHVILLE, TENN., TO JACKSONVILLE, FLA., FROM SEPTEMBER 19, 1879.

Date.	Rates (in cents per 100 pounds).												Rates per [illegible]
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.
1879—Sept. 19.....	122	98	72	46	36	29	30	31	41	28	37	33	21
Nov. 15.....	122	93	72	46	36	29	40	41	43	38	37	33	71
1880—Apr. 8.....	122	88	67	58	47	39	41	41	38	33	46	43	61
Sept. 1.....	126	93	74	62	50	42	38	44	43	41	61	57	73
1881—May 5.....	136	102	82	69	56	47	51	47	43	43	61	62	83
Sept. 1.....	119	99	82	69	57	47	34	37	34	31	52	58	68
Nov. 25.....	102	85	72	61	49	40	36	35	33	33	55	55	65
1882—Apr. 20.....	82	74	65	57	48	39	32	32	30	28	36	36	56
July 10.....	82	74	65	57	48	39	32	32	30	28	36	36	56
Sept. 1.....	82	69	65	62	51	40	32	36	33	33	43	43	68
1883—May 1.....	82	69	65	62	51	40	32	29	27	27	36	36	52
1884—Feb. 17.....	82	69	65	62	51	40	32	29	27	23	36	36	52
Mar. 3.....	84	71	66	62	51	41	32	30	27	24	36	36	53
Apr. 10.....	72	60	57	55	45	35	27	24	22	19	31	31	38
1885—Feb. 18.....	72	60	57	55	45	35	27	24	22	19	31	31	38
1886—Mar. 1.....	72	60	57	55	45	35	27	24	22	19	31	31	36
1887—July 15.....	72	60	57	55	45	35	27	24	23	19	31	31	36
1889—Oct. 14.....	72	60	57	55	45	35	27	27	23	20	31	31	39
1890—Mar. 1.....	72	60	57	55	45	35	27	27	25	21	31	31	42
1891—Oct. 15.....	72	60	57	55	45	35	27	27	21	17	31	31	34

* Rate per 100 pounds.

LE 99.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED RAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, MEMPHIS TO CHATTA-OOGA, TENN., FROM APRIL 1, 1879.

Date.	Rates (in cents per 100 pounds).												Rates (in cents per barrel).	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1—Apr. 1.....	73	64	56	32	29	28	28	32	32	29	32	32	58	86
Sept. 19.....	70	61	53	36	30	25	26	21	20	16	25	36	33	89
Nov. 15.....	70	61	53	36	30	25	31	26	25	21	25	42	42	95
0—Apr. 8.....	73	62	52	40	33	23	21	28	26	22	47	41	45	111
0—Sept. 1.....	79	69	58	49	38	28	15	28	26	22	32	45	45	81
1—May 5.....	79	69	58	49	38	28	18	28	26	22	32	45	45	81
Sept. 1.....	62	55	48	41	34	27	19	23	19	17	32	38	37	65
Oct. 1.....	62	55	48	41	34	27	15	23	20	18	33	40	38	67
Nov. 25.....	62	55	48	41	34	27	18	28	25	23	38	45	45	83
2—Jan. 1.....	62	55	48	41	34	27	18	28	25	23	33	40	43	83
Apr. 12.....	62	55	48	41	34	27	15	23	21	18	26	34	37	66
July 10.....	62	55	48	41	34	27	15	18	16	13	26	34	27	54
3—May 1.....	79	67	57	47	37	28	15	27	19	18	32	39	37	81
4—Feb. 17.....	79	67	57	47	37	28	15	22	18	17	31	38	34	66
Apr. 10.....	71	60	52	43	35	28	15	21	17	14	29	33	28	62
85—Feb. 18.....	73	62	54	45	37	30	17	23	19	16	31	35	33	55
87—July 15.....	72	61	53	44	36	29	16	22	19	15	30	34	30	*22
89—Oct. 14.....	72	61	53	44	36	26	16	22	19	15	30	29	30	*22
90—Mar. 1.....	72	61	53	43	36	26	16	22	21	17	30	29	34	*22
91—Mar. 31.....	72	61	53	43	36	26	16	22	19	15	30	29	30	*22

* Cents per 100 pounds.

TABLE 100.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASS[ES] TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, MEMPHIS, TENN., [TO] ATLANTA, GA., FROM SEPTEMBER 19, 1879.

Date.	Rates (in cents per 100 pounds).												Rate [in] cents per [mile]
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.
1879—Sept. 19	105	90	75	59	48	35	34	37	39	34	43	59	[illegible]
Nov. 15	105	90	75	59	48	35	39	42	44	39	43	59	[illegible]
1880—Apr. 8	105	90	75	59	48	35	32	42	38	33	49	69	[illegible]
Sept. 1	114	100	85	73	59	44	27	45	41	36	50	69	[illegible]
1881—May 5	114	100	85	73	59	44	35	45	44	38	53	73	[illegible]
Sept. 1	90	80	70	60	50	40	29	33	29	26	47	56	[illegible]
Oct. 1	90	80	70	60	50	40	23	33	29	26	47	56	[illegible]
Nov. 25	90	80	70	60	50	40	31	39	35	32	52	63	[illegible]
1882—Jan. 1	90	80	70	60	50	40	29	38	34	31	47	56	[illegible]
Apr. 13	90	80	70	60	50	40	31	36	33	30	45	52	[illegible]
July 10	90	80	70	60	50	40	25	31	28	25	45	56	[illegible]
Sept. 1	113	97	83	68	54	41	23	43	39	28	47	57	[illegible]
1883—May 1	113	97	83	68	54	41	23	35	29	28	47	57	[illegible]
July 15	113	97	83	68	54	41	23	33	27	26	45	55	[illegible]
1884—Mar. 3	113	97	83	68	54	41	23	35	29	28	47	57	[illegible]
Apr. 16	102	87	76	63	51	41	23	31	26	22	43	48	[illegible]
1885—Feb. 18	104	89	78	65	53	43	25	33	28	24	45	50	[illegible]
1887—July 15	103	88	77	64	52	42	24	32	27	23	44	49	[illegible]
1891—Oct. 15	103	88	77	64	52	42	24	31	24	20	44	49	[illegible]

* Cents per 100 pounds.

BLE 101.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, MEMPHIS, TENN., TO HARLESTON, S. C., AND SAVANNAH, GA., FROM APRIL 1, 1879.

Date.	Rates (in cents per 100 pounds).												Rates (in cents per barrel).	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
9—Apr. 1.....	140	108	84	49	49	41	50	52	51	45	52	59	90	181
Sept. 19.....	137	105	81	53	41	33	42	44	45	40	49	.....	75	155
Nov. 15.....	137	105	81	53	41	33	52	54	55	50	49	50	95	185
0—Feb. 1.....	137	105	81	53	41	33	47	49	50	45	44	45	85	169
Sept. 1.....	141	105	83	69	55	46	40	42	38	38	56	61	71	140
1—Apr. 5.....	141	105	83	69	55	46	48	45	40	40	59	64	75	156
Apr. 8.....	187	100	78	65	52	43	48	49	45	43	54	75	75	172
May 5.....	141	105	83	69	55	46	48	45	40	40	59	64	75	156
Sept. 1.....	124	102	88	69	55	46	31	35	31	28	50	60	60	105
Oct. 1.....	124	102	83	69	55	46	31	35	31	28	50	60	60	105
Nov. 25.....	107	88	73	61	48	39	33	33	30	30	56	57	50	107
2—Jan. 1.....	107	88	73	61	48	39	33	33	30	30	56	57	50	107
Apr. 20.....	90	80	70	60	50	40	30	30	28	25	35	35	50	85
July 10.....	90	80	70	60	50	40	30	25	23	20	35	35	40	75
Sept. 1.....	90	75	70	65	53	41	30	34	31	30	47	47	60	102
3—May 1.....	90	75	70	65	53	41	30	27	24	24	35	35	46	81
4—Mar. 3.....	90	75	70	65	53	41	30	27	24	20	35	35	46	81
5—Feb. 18.....	92	77	72	67	55	43	32	29	26	22	37	37	44	70
7—July 15.....	91	76	71	66	54	42	31	28	25	21	36	36	42	*28
8—Sept. 30.....	91	76	71	66	54	42	31	28	20	16	36	36	32	*28
9—Oct. 14.....	91	76	71	66	54	42	31	31	28	22	36	36	44	*31
0—Mar. 1.....	91	76	71	66	54	42	31	31	28	24	36	36	44	*31
1—Oct. 15.....	91	76	71	66	54	42	31	31	28	19	36	36	38	*31

* Cents per 100 pounds.

TABLE 102.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, MEMPHIS, TENN., TO JACKSONVILLE, FLA., FROM SEPTEMBER, 19, 1879.

Date.	Rates (in cents per 100 pounds).												Rates in cents per barrel.	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	[illegible]
1879—Sept. 19	137	105	81	53	41	33	32	34	35	30	39	40	58	[illegible]
Nov. 15	137	105	81	53	41	33	42	44	45	40	39	40	73	[illegible]
1880—Feb. 1	139	105	81	53	41	33	42	44	45	40	39	40	73	[illegible]
Apr. 1	137	100	78	65	52	43	43	44	40	35	49	50	73	[illegible]
Sept. 1	141	105	83	69	55	46	40	47	45	43	64	64	73	[illegible]
1881—May 5	151	114	91	76	61	51	53	50	45	45	64	68	73	[illegible]
Sept. 1	134	111	91	76	62	51	36	40	36	33	55	65	73	[illegible]
Oct. 1	134	111	91	76	62	51	36	40	36	33	55	65	73	[illegible]
Nov. 20	117	97	81	68	54	44	38	38	35	35	58	62	73	[illegible]
1882—Jan. 1	117	97	81	68	54	44	38	38	35	35	58	62	73	[illegible]
Apr. 20	100	89	78	67	56	45	39	35	33	30	40	40	73	[illegible]
July 10	100	89	78	67	56	45	39	35	33	30	40	40	73	[illegible]
Sept 1	100	84	78	72	59	46	35	39	36	35	52	52	73	[illegible]
1883—May 1	100	84	78	72	59	46	35	32	29	29	40	40	56	[illegible]
1884—Feb. 17	100	84	78	72	59	46	35	32	29	25	40	56	56	[illegible]
Mar. 3	100	84	78	72	59	46	35	32	29	25	40	40	56	[illegible]
Apr. 10	90	75	70	65	53	41	30	27	24	20	35	35	46	[illegible]
1885—Feb. 18	92	77	72	67	55	43	32	29	26	22	37	37	44	[illegible]
July 15	92	77	72	67	55	43	32	29	26	22	37	44	44	[illegible]
1886—Mar. 1	92	77	72	67	55	43	32	29	26	22	37	37	44	[illegible]
1887—July 15	91	76	71	66	54	42	31	28	25	21	36	36	42	[illegible]
1889—Oct. 14	91	76	71	66	54	42	31	31	26	22	36	36	44	[illegible]
1890—Mar. 1	91	76	71	66	54	42	31	31	28	24	36	36	42	[illegible]
1891—Oct. 15	91	76	71	66	54	42	31	31	23	19	36	36	36	[illegible]

* Cents per 100 pounds.

COTTON RATES.

Four tables here follow showing the changes in cotton rates between rious Southern and Eastern points.

BLE 103.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF COMPRESSED COTTON FROM MEMPHIS, TENN., TO NEW YORK AND BOSTON VIA ALL RAIL FROM SEPTEMBER 1, 1880.

[Rates in cents per 100 pounds.]

From Memphis, Tenn., to.....	New York, N. Y.	Boston, Mass.	From Memphis, Tenn., to.....	New York, N. Y.	Boston, Mass.	From Memphis, Tenn., to.....	New York, N. Y.	Boston, Mass.
80—Sept. 1.....	74	79	1884—Feb. 2....	50	55	1888—Oct. 1....	50½	55½
81—Apr. 20.....	68	73	Apr. 5....	(*)	(*)			
July 20.....	65	70	Sept. 17....	62	67			
Sept. 9.....	52	57	1885—May 21....	45	50			
Sept. 27.....	65	70	Sept. 25....	62	57			
Nov. 14.....	52	57	Dec. 22....	53	58			
Dec. 12.....	57	62	1886—Sept. 18....	(*)	(*)			
82—Apr. 8.....	47	52	Oct. 1....	53	58			
May 5.....	57	62	1887—Sept. 29....	(*)	(*)			
Sept. 16.....	72	77	Nov. 4....	50½	55½			
83—Dec. 27.....	62	67	1888—Feb. 27....	45	50			
84—Jan. 17.....	55	60						

* Nominal.

TABLE 104.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF COMPRESSED COTTON FROM NEW ORLEANS, LA., TO BOSTON, NEW YORK, PHILADELPHIA, AND BALTIMORE, VIA ALL RAIL LINES FROM DECEMBER 10, 1880.

Date.	Rates (in cents, per 100 pounds).			
	To Boston, Mass.	To New York, N. Y.	To Philadelphia, Pa.	To Baltimore, Md.
1880—Dec. 10.....	60	55	55	55
1881—Nov. 4.....	50	45	50	50
1882—Sept. 20.....	60	55	53	52
1886—Mar. 13.....	50	45	43	42
1887—July 5.....	50	45	43	42
1888—June 12.....	45	40	38	37
Sept. 24.....	60	55	53	52
Nov. 10.....	50	45	43	42
1889—Sept. 25.....	60	55	53	52
Oct. 29.....	55	50	50	50
1890—Mar. 6.....	55	50	50	50
1892—Apr. 7.....	55	50	50	50

TABLE 96.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, NASHVILLE, TENN., TO ATLANTA, GA., FROM SEPTEMBER 19, 1879.

Date.	Rates (in cents per 100 pounds).												Rates in cents per barrel.	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Sept. 19	90	78	66	52	43	31	33	34	37	33	39	33	29	19
Nov. 15	90	78	66	52	43	31	37	39	43	37	39	33	76	15
1880—Apr. 8	90	78	66	52	43	31	30	39	36	31	46	33	66	15
Sept. 1	84	74	63	54	43	33	30	34	31	27	37	30	33	9
1881—May 5	84	74	63	54	43	33	26	37	34	26	40	34	33	9
Sept. 1	75	68	61	53	45	36	27	30	27	24	44	49	33	9
Oct. 1	71	64	56	49	41	34	20	29	26	23	39	46	30	9
Nov. 25	71	64	56	49	41	34	24	34	31	28	44	51	30	9
1882—Jan. 1	71	64	56	49	41	34	24	34	31	28	39	46	30	12
Apr. 12	68	61	54	46	39	32	22	33	30	28	36	41	26	12
July 10	68	61	54	46	39	32	22	28	25	23	36	34	33	9
Sept. 1	93	72	63	51	41	33	20	39	28	26	37	41	32	9
1883—May 1	83	72	63	51	41	33	20	33	26	26	37	41	32	9
June 15	83	72	63	51	41	33	20	30	24	24	35	39	25	9
1884—Apr. 10	72	62	56	46	38	33	20	28	23	20	33	32	25	9
1885—Feb. 18	72	62	56	46	38	33	20	28	23	20	33	32	40	4
1887—July 1	72	62	56	46	38	33	20	28	24	20	33	32	40	3
1891—Oct. 15	72	62	56	46	38	33	20	27	21	17	33	33	34	4

* Cents per 100 pounds.

ABLE 97.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, NASHVILLE, TENN., TO CHARLESTON, S. C., AND SAVANNAH, GA., FROM APRIL 1, 1879.

Date.	Rates (in cents per 100 pounds).												Rates (in cents per barrel).	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Apr. 1	122	93	72	39	39	24	45	46	40	40	46	49	89	166
Sept. 19	122	93	72	46	36	29	40	41	43	38	46	43	71	150
Nov. 15	122	93	72	46	36	29	40	41	43	38	37	33	71	148
1880—Feb. 1	122	93	73	46	36	29	45	46	43	43	41	38	81	164
Apr. 8	122	88	67	58	47	39	46	46	43	38	51	48	71	167
Sept. 1	126	93	74	62	50	42	38	39	36	36	53	54	67	135
1881—Apr. 15	126	93	74	62	50	42	46	42	38	38	56	57	61	151
May 5	126	93	74	62	50	42	46	42	38	38	56	57	71	151
Sept. 1	109	90	74	62	50	42	29	32	29	26	47	53	56	100
Nov. 25	92	76	64	54	43	35	31	30	28	28	50	50	55	102
1882—Apr. 20	72	65	57	50	42	34	27	27	25	23	31	31	46	76
July 10	72	65	57	50	42	34	27	22	20	18	31	31	36	66
Sept. 1	72	60	57	55	45	35	27	31	28	28	43	43	56	93
1883—May 1	72	60	57	55	45	35	27	24	22	22	31	31	42	72
1884—Mar. 3	72	60	57	55	45	35	27	24	22	19	31	31	42	78
Apr. 10	72	60	57	55	45	35	27	24	22	19	31	31	38	78
1885—Feb. 18	72	60	57	55	45	35	27	24	22	19	31	31	38	58
1886—Mar. 1	72	60	57	55	45	35	27	24	22	19	31	31	38	*24
1888—Sept. 30	72	60	57	55	45	35	27	24	19	15	31	31	30	*24
1889—Oct. 14	72	60	57	55	45	35	27	23	20	31	31	31	39	21 *23
1890—Mar. 1	72	60	57	55	45	35	27	27	25	21	31	31	42	*27
1891—Oct. 15	72	60	57	55	45	35	27	27	21	17	31	31	34	*27

* In cents per 100 pounds.

TABLE 98.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, NASHVILLE, TENN., JACKSONVILLE, FLA., FROM SEPTEMBER 19, 1879.

Date.	Rates (in cents per 100 pounds).												Rates in cents per barrel.	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Flour and pork in barrels.
1879—Sept. 19.....	122	93	72	46	36	29	30	31	41	28	37	33	51	
Nov. 15.....	122	93	72	46	30	29	40	41	43	33	37	33	71	
1880—Apr. 8.....	122	88	67	58	47	39	41	41	38	33	46	43	61	
Sept. 1.....	126	93	74	62	50	42	38	44	43	41	61	57	78	
1881—May 5.....	136	102	82	69	56	47	51	47	43	43	61	62	81	
Sept. 1.....	119	99	82	69	57	47	34	37	34	31	52	58	66	
Nov. 25.....	102	85	72	61	49	40	36	35	33	33	55	55	65	
1882—Apr. 20.....	82	74	65	57	48	39	32	32	30	28	36	36	56	
July 10.....	82	74	65	57	48	39	32	32	30	28	36	36	56	
Sept. 1.....	82	69	65	62	51	40	32	36	33	33	48	48	66	
1883—May 1.....	82	69	65	62	51	40	32	29	27	27	36	36	52	
1884—Feb. 17.....	82	69	65	62	51	40	32	29	27	23	36	36	52	
Mar. 8.....	84	71	66	62	51	41	32	30	27	24	36	36	53	
Apr. 10.....	72	60	57	55	45	35	27	24	22	19	31	31	38	
1885—Feb. 18.....	72	60	57	55	45	35	27	24	22	19	31	31	38	
1886—Mar. 1.....	72	60	57	55	45	35	27	24	22	19	31	31	36	
1887—July 15.....	72	60	57	55	45	35	27	24	23	19	31	31	38	
1889—Oct. 14.....	72	60	57	55	45	35	27	27	23	20	31	31	39	
1890—Mar. 1.....	72	60	57	55	45	35	27	27	25	21	31	31	42	
1891—Oct. 15.....	72	60	57	55	45	35	27	27	21	17	31	31	34	

* Rate per 100 pounds.

BLE 99.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, MEMPHIS TO CHATTANOOGA, TENN., FROM APRIL 1, 1879.

Date.	Rates (in cents per 100 pounds).												Rates (in cents per barrel).	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
79—Apr. 1	73	64	56	32	29	28	28	32	32	29	32	32	58	36
Sept. 19	70	61	53	36	30	25	26	21	20	16	25	36	32	30
Nov. 15	70	61	53	36	30	25	31	26	25	21	25	42	42	95
80—Apr. 8	73	62	52	40	33	23	21	28	26	22	47	41	45	111
80—Sept. 1	79	69	58	49	38	28	15	28	26	22	32	45	48	81
81—May 5	79	69	58	49	38	28	18	28	26	22	32	45	48	81
Sept. 1	62	55	48	41	34	27	19	23	19	17	32	38	37	65
Oct. 1	62	55	48	41	34	27	15	23	20	18	38	40	38	67
Nov. 25	62	55	48	41	34	27	18	28	25	23	38	45	48	83
82—Jan. 1	62	55	48	41	34	27	18	28	25	23	38	40	48	83
Apr. 12	62	55	48	41	34	27	15	23	21	18	26	34	37	66
July 10	62	55	48	41	34	27	15	18	16	13	26	34	27	54
83—May 1	79	67	57	47	37	28	15	27	19	18	32	39	37	81
84—Feb. 17	79	67	57	47	37	28	15	22	18	17	31	38	34	66
Apr. 10	71	60	52	43	35	28	15	21	17	14	29	33	28	62
85—Feb. 18	73	62	54	45	37	30	17	23	19	16	31	35	32	55
87—July 15	72	61	53	44	36	29	16	22	19	15	30	34	30	*22
89—Oct. 14	72	61	53	44	36	26	16	22	19	15	30	29	30	*22
90—Mar. 1	72	61	53	43	36	26	16	22	21	17	30	29	34	*22
91—Mar. 31	72	61	53	43	36	26	16	22	19	15	30	29	30	*22

* Cents per 100 pounds.

TABLE 100.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, MEMPHIS, TENN., TO ATLANTA, GA., FROM SEPTEMBER 19, 1879.

Date.	Rates (in cents per 100 pounds).												Rates in cents per barrel.	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	[illegible]
1879—Sept. 19	105	90	75	59	48	35	34	37	39	34	43	59	68	[illegible]
Nov. 15	105	90	75	59	48	35	39	42	44	39	43	59	73	[illegible]
1880—Apr. 6	105	90	75	59	48	35	32	42	38	33	49	60	67	[illegible]
Sept. 1	114	100	85	73	59	44	27	45	41	36	50	68	78	[illegible]
1881—May 5	114	100	85	73	59	44	35	48	44	38	53	73	83	[illegible]
Sept. 1	90	80	70	60	50	40	29	33	29	26	47	56	56	[illegible]
Oct. 1	90	80	70	60	50	40	23	33	29	26	47	56	56	[illegible]
Nov. 25	90	80	70	60	50	40	31	39	35	32	53	62	68	[illegible]
1882—Jan. 1	90	80	70	60	50	40	29	38	34	31	47	56	68	[illegible]
Apr. 12	90	80	70	60	50	40	31	36	33	30	45	52	58	[illegible]
July 10	90	80	70	60	50	40	25	31	28	25	45	56	58	[illegible]
Sept. 1	113	97	83	68	54	41	23	42	29	28	47	57	58	[illegible]
1883—May 1	113	97	83	68	54	41	22	35	29	28	47	57	58	[illegible]
July 15	113	97	83	68	54	41	22	33	27	26	45	55	53	[illegible]
1884—Mar. 8	113	97	83	68	54	41	23	35	29	28	47	57	56	[illegible]
Apr. 10	102	87	76	63	51	41	23	31	26	22	43	46	44	[illegible]
1885—Feb. 18	104	89	78	65	53	43	25	33	28	24	45	50	43	[illegible]
1887—July 15	103	88	77	64	52	42	24	32	27	23	44	49	46	[illegible]
1891—Oct. 15	103	88	77	64	52	42	24	31	24	20	44	49	49	[illegible]

* Cents per 100 pounds.

BLE 101.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, MEMPHIS, TENN., TO CHARLESTON, S. C., AND SAVANNAH, GA., FROM APRIL 1, 1879.

Date.	Rates (in cents per 100 pounds).												Rates (in cents per barrel).	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
79—Apr. 1	140	108	84	49	49	41	50	52	51	45	52	59	90	181
Sept. 19	137	105	81	58	41	33	42	44	45	40	49	.....	75	155
Nov. 15	137	105	81	58	41	33	52	54	55	50	49	50	95	185
80—Feb. 1	137	105	81	58	41	33	47	49	50	45	44	45	85	169
Sept. 1	141	105	88	69	55	46	40	42	38	38	56	61	71	140
81—Apr. 5	141	105	88	69	55	46	48	45	40	40	59	64	75	156
Apr. 8	137	100	78	65	52	43	48	49	45	43	54	75	75	172
May 5	141	105	88	69	55	46	48	45	40	40	59	64	75	156
Sept. 1	124	102	88	69	55	46	31	35	31	28	50	60	60	105
Oct. 1	124	102	88	69	55	46	31	35	31	28	50	60	60	105
Nov. 25	107	88	78	61	48	39	33	33	30	30	56	57	59	107
82—Jan. 1	107	88	78	61	48	39	33	33	30	30	56	57	59	107
Apr. 20	90	80	70	60	50	40	30	30	28	25	35	35	50	85
July 10	90	80	70	60	50	40	30	25	28	20	35	35	40	75
Sept. 1	90	75	70	65	53	41	30	34	31	30	47	47	60	102
83—May 1	90	75	70	65	53	41	30	27	24	24	35	35	46	81
84—Mar. 3	90	75	70	65	53	41	30	27	24	20	35	35	46	81
85—Feb. 18	92	77	72	67	55	43	32	29	26	22	37	37	44	70
87—July 15	91	76	71	66	54	42	31	28	25	21	36	36	42	*28
88—Sept. 30	91	76	71	66	54	42	31	28	20	16	36	36	32	*28
89—Oct. 14	91	76	71	66	54	42	31	31	28	22	36	36	44	*31
90—Mar. 1	91	76	71	66	54	42	31	31	28	24	36	36	44	*31
91—Oct. 15	91	76	71	66	54	42	31	31	28	19	36	36	38	*31

* Cents per 100 pounds.

TABLE 102.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, MEMPHIS, TENN., TO JACKSONVILLE, FLA., FROM SEPTEMBER, 19, 1879.

Date.	Rates (in cents per 100 pounds).												Rates in cents per barrel.	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Sept. 19.....	137	105	81	53	41	33	32	34	35	30	39	40	58	
Nov. 15.....	137	105	81	53	41	33	42	44	45	40	39	40	78	
1880—Feb. 1.....	139	105	81	53	41	33	42	44	45	40	39	40	78	
Apr. 1.....	137	100	76	65	52	43	43	44	40	35	49	50	67	
Sept. 1.....	141	105	83	69	55	46	40	47	45	43	64	64	82	
1881—May 5.....	151	114	91	76	61	51	53	50	45	45	64	69	85	
Sept. 1.....	134	111	91	76	62	51	36	40	36	33	55	65	70	
Oct. 1.....	134	111	91	76	62	51	36	40	36	33	55	65	70	
Nov. 20.....	117	97	81	68	54	44	38	38	35	35	58	62	80	
1882—Jan. 1.....	117	97	81	68	54	44	38	38	35	35	58	62	80	
Apr. 20.....	100	89	78	67	56	45	39	35	33	30	40	40	60	
July 10.....	100	89	78	67	56	45	39	35	33	30	40	40	60	
Sept 1.....	100	84	78	72	59	46	35	39	36	35	52	52	70	
1883—May 1.....	100	84	78	72	59	46	35	32	29	29	40	40	56	
1884—Feb. 17.....	100	84	78	72	59	46	35	32	29	25	40	56	56	
Mar. 3.....	100	84	78	72	59	46	35	32	29	25	40	40	56	
Apr. 10.....	90	75	70	65	53	41	30	27	24	20	35	35	49	
1885—Feb. 18.....	92	77	72	67	55	43	32	29	26	22	37	37	44	
July 15.....	92	77	72	67	55	43	32	29	26	22	37	44	44	
1886—Mar. 1.....	92	77	72	67	55	43	32	29	26	22	37	37	44	
1887—July 15.....	91	76	71	66	54	42	31	28	25	21	36	36	42	
1889—Oct. 14.....	91	76	71	66	54	42	31	31	26	22	36	36	44	
1890—Mar. 1.....	91	76	71	66	54	42	31	31	28	24	36	36	44	
1891—Oct. 15.....	91	76	71	66	54	42	31	31	23	19	36	36	38	

* Cents per 100 pounds.

COTTON RATES.

Four tables here follow showing the changes in cotton rates between various Southern and Eastern points.

TABLE 103.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF COMPRESSED COTTON FROM MEMPHIS, TENN., TO NEW YORK AND BOSTON VIA ALL RAIL FROM SEPTEMBER 1, 1880.

[Rates in cents per 100 pounds.]

From Memphis, Tenn., to.....	New York, N. Y.	Boston, Mass.	From Memphis, Tenn., to.....	New York, N. Y.	Boston, Mass.	From Memphis, Tenn., to.....	New York, N. Y.	Boston, Mass.
1880—Sept. 1.....	74	79	1884—Feb. 2....	50	55	1888—Oct. 1....	50½	55½
1881—Apr. 20.....	68	73	Apr. 5....	(*)	(*)			
July 20.....	65	70	Sept. 17....	62	67			
Sept. 9.....	52	57	1885—May 21....	45	50			
Sept. 27.....	65	70	Sept. 25....	52	57			
Nov. 14.....	52	57	Dec. 22....	53	58			
Dec. 12.....	57	62	1886—Sept. 18....	(*)	(*)			
1882—Apr. 8.....	47	52	Oct. 1....	53	58			
May 5.....	57	62	1887—Sept. 29....	(*)	(*)			
Sept. 16.....	72	77	Nov. 4....	50½	55½			
1883—Dec. 27.....	62	67	1888—Feb. 27....	45	50			
1884—Jan. 17.....	55	60						

* Nominal.

TABLE 104.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF COMPRESSED COTTON FROM NEW ORLEANS, LA., TO BOSTON, NEW YORK, PHILADELPHIA, AND BALTIMORE, VIA ALL RAIL LINES FROM DECEMBER 10, 1880.

Date.	Rates (in cents, per 100 pounds).			
	To Boston, Mass.	To New York, N. Y.	To Philadelphia, Pa.	To Baltimore, Md.
1880—Dec. 10.....	60	55	55	55
1881—Nov. 4.....	50	45	50	50
1882—Sept. 20.....	60	55	53	52
1886—Mar. 13.....	50	45	43	42
1887—July 5.....	50	45	43	42
1888—June 12.....	45	40	38	37
Sept. 24.....	60	55	53	52
Nov. 10.....	50	45	43	42
1889—Sept. 25.....	60	55	53	52
Oct. 29.....	55	50	50	50
1890—Mar. 6.....	55	50	50	50
1892—Apr. 7.....	55	50	50	50

TABLE 105.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF COMPRESSED COTTON FROM NEW ORLEANS, LA., TO NEW YORK AND BOSTON BY STEAMER FROM SEPTEMBER, 1875.

[There being no regular steamers from New Orleans to Boston, cotton for the latter point is shipped via steamer to New York, and thence via rail or water to destination.]

[Rates in cents, per 100 pounds.]

Date.	To New York.	To Boston.	Date.	To New York.	To Boston.	Date.	To New York.	To Boston.
1875—Sept. 1	62½	.....	1880—Jan. 8	.....	62½	1886—Feb. 24	.....	[illegible]
Sept. 13	30	.....	Feb. 18	50	.....	Sept. 9	35	[illegible]
Sept. 15	50	68¾	Mar. 16	37½	50	1887—Mar. 24	25	[illegible]
Sept. 29	.....	75	Sept. 2	50	.....	Sept. 2	40	[illegible]
Oct. 22	.....	68¾	Sept. 4	.....	62½	1888—Feb. 28	.....	[illegible]
Oct. 27	62½	.....	Oct. 27	.....	55	June 29	25	[illegible]
Oct. 28	75	100	Nov. 10	40	.....	Aug. 30	40	[illegible]
Nov. 22	.....	87½	1881—Nov. 9	35	.....	Sept. 27	51	[illegible]
Dec. 9	87½	100	Nov. 10	.....	50	Oct. 15	.....	[illegible]
1876—Jan. 6	75	.....	1882—Mar. 15	30	.....	Dec. 18	41	.....
Jan. 14	.....	87½	Sept. 30	42	.....	Dec. 19	.....	[illegible]
Jan. 27	62½	75	Oct. 17	.....	54–60	1889—Aug. 20	40	.....
Feb. 24	56¼	62½	1883—Jan. 2	50	.....	Oct. 8	51	[illegible]
Mar. 11	50	.....	Jan. 5	.....	60	Oct. 29	46	[illegible]
Oct. 7	62½	75	Jan. 12	40	52	1890—Feb. 15	33	[illegible]
Nov. 29	75	87½	Jan. 25	35	50	Sept. 15	45	[illegible]
1877—Jan. 5	62½	75	June 22	30	.....	1891—Feb. 9	35	[illegible]
Jan. 11	50	62½	Nov. 7	40	55	Sept. 21	46	[illegible]
Mar. 3	47½	.....	1884—Jan. 11	25	40	1892—Feb. 11	32	[illegible]
May 19	31¼	.....	Mar. 22	30	.....	Sept. 14	33	[illegible]
June 5	47½	.....	Apr. 3	.....	45	1893—Jan. 14	30	[illegible]
June 11	50	.....	Apr. 5	.....	43–45			
Nov. 14	62½	75	May 1	25	.....			
Nov. 21	75	.....	May 2	.....	38–40			
Nov. 22	.....	87½	Sept. 16	30	.....			
Dec. 21	62½	75	Nov. 24	40	53–55			
1878—Jan. 3	50	62½	1885—Jan. 8	30	43–45			
1879—Feb. 10	37½	50	May 14	25	38–40			
Oct. 7	50	.....	Sept. 25	35	.....			
Nov. 29	.....	75	Sept. 26	.....	46–48			
Dec. 1	62½	.....	1886—Feb. 18	25	.....			

TABLE 106.—RATES IN CENTS PER 100 POUNDS CHARGED FOR THE TRANSPORTATION OF COMPRESSED COTTON VIA RAIL FROM POINTS IN GEORGIA AND ALABAMA TO THE VARIOUS ATLANTIC SEABOARD CITIES DURING 1886, 1890, AND 1893.

[Rates in cents per 100 pounds.]

To—	From—																	
	Atlanta, Ga.			Augusta, Ga.			Chattanooga, Tenn., Dalton, Ga.			Macon, Ga.			Rome, Ga.			Montgomery, Ala., Selma, Ala.		
	1886	1890	1893	1886	1890	1893	1886	1890	1893	1886	1890	1893	1886	1890	1893	1886	1890	1893
Brunswick, Ga	45	43	43	....	....	....	45	45	51	40	34	34	45	45	51	....	45	45
Savannah, Ga	45	43	43	27	25	25	45	45	51	40	34	34	45	45	51	45	45	45
Port Royal, S. C	45	43	43	27	25	25	45	45	51	40	34	34	45	45	51	45	45	45
Charleston, S. C																		
Wilmington, N. C	45	43	43	27	25	25	45	45	51	40	34	34	45	45	51	45	45	45
Richmond, Va	56	54	54	40	36	36	56	56	62	53	45	45	56	56	62	56	56	56
West Point, Va																		
Petersburg, Va	56	54	54	40	36	36	56	56	62	53	45	45	56	56	62	56	56	56
Portsmouth, Va	56	54	54	40	36	36	56	56	62	53	45	45	56	56	62	56	56	56
Norfolk, Va																		
Baltimore, Md	67	59	59	51	41	41	67	61	67	64	50	50	67	61	67	67	61	61
New York, N. Y	75	64	64	57	46	46	75	66	72	70	55	55	75	66	72	75	66	66
Philadelphia, Pa																		
Providence, R. I	85	69	69	67	51	51	85	71	77	80	60	60	85	71	77	85	71	71
Boston, Mass																		

RATES ON ORANGES FROM SOUTHERN POINTS TO EASTERN CITIES.

Three tables are next presented showing the changes in the rates on oranges from Jacksonville, Fla., to Eastern cities. Three principal routes are employed for the carriage of this traffic, one via all rail, the second via rail to Norfolk and Portsmouth, Va., and thence via water, and the third via rail to Savannah, Ga., and thence via water. The charges by each vary, the water lines charging lower rates than via all rail. Each table shows the changes which have taken place in these rates so far as the data have been obtainable.

TABLE 107.—RATES ON ORANGES FROM JACKSONVILLE, FLA., TO POINTS NAMED, VIA SAVANNAH, ALL RAIL, FROM DECEMBER 6, 1887.

Taking effect—	Rates in cents.							
	To Baltimore, Md.		To Philadelphia, Pa.		To New York, N. Y.		To Boston, Mass.	
	Per box.	Per barrel.	Per box.	Per barrel.	Per box.	Per barrel.	Per box.	Per barrel.
1887—Dec. 6	40	80	40	80	40	80	40	80
1888—Oct. 8	40	80	41	81	43	85	49	98
1889—Sept. 21	40	80	41	81	43	85	49	98
1890—Nov. 23	50	100	51	102	53	106	59	118
1892—Jan. 2	50	100	51	102	53	106	61	122
Nov. 1	50	100	51	102	53	106	61	122

TABLE 108.—RATES ON ORANGES FROM JACKSONVILLE, FLA., TO POINTS NAMED, VIA SAVANNAH, RAIL TO NORFOLK OR PORTSMOUTH, AND THENCE VIA WATER, FROM OCTOBER 15, 1883.

Taking effect—	Rates in cents.							
	To Baltimore, Md.		To Philadelphia, Pa.		To New York, N. Y.		To Boston, Mass.	
	Per box.	Per barrel.	Per box.	Per barrel.	Per box.	Per barrel.	Per box.	Per barrel.
1883—Oct. 15	60	120	60	120	60	120	65	130
Dec. 7	50	100	50	100	50	100	60	120
1884—Oct. 15	30	60	30	60	30	60	45	90
1885—Jan. 12	40	80	40	80	40	80	54	96
1886—Nov. 1							40	60
Nov. 30	35	70	35	70	35	70	35	70
1888—Oct. 1							38	76
1889—Oct. 15	37½	75	37½	75	37½	75	40½	81
1890—Nov. 23	47½	95	47½	95	47½	95	50½	101
1892—Jan. 2	47½	95	47½	95	47½	95	50½	101
Nov. 1	47½	95	47½	95	47½	95	50½	101

TABLE 109.—RATES ON ORANGES FROM JACKSONVILLE, FLA., TO POINTS NAMED VIA SAVANNAH AND STEAMSHIP, FROM OCTOBER 3, 1881.

Taking effect—	Rates in cents.							
	To Baltimore, Md.		To Philadelphia, Pa.		To New York, N. Y.		To Boston, Mass.	
	Per box.	Per barrel.	Per box.	Per barrel.	Per box.	Per barrel.	Per box.	Per barrel.
1881—Oct. 3	50	100	50	100	50	100	50	
1883—Oct. 15	50	100	50	100	50	100	50	
Nov. 15	50	100	50	100	50	100	50	
1884—Oct. 6	30	60	30	60	30	60	30	
1885—Jan. 12	40	80	40	80	40	80	40	
Sept. 7	40	80	40	80	40	80	40	
1886—Sept. 15	40	80	40	80	40	80	40	
Nov. 18	30	60	30	60	30	60	30	
1887—Sept. 1	30	60	30	60	30	60	30	
Sept. 15	30	60	30	60	30	60	30	
1889—Sept. 20	30	60	30	60	30	60	35	
1890—Nov. 23	40	80	40	80	40	80	45	
1892—Jan. 2	40	80	40	80	40	80	45	
Nov. 1	40	80	40	80	40	80	45	

TABLE 110.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, SAVANNAH TO ATLANTA, GA., FROM AUGUST 27, 1878.

Date.	Rates (in cents per 100 pounds).												Rates in cents per barrel.	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1878—Aug. 27	100	85	70	55	40	....	40	40	35	25	*60	.....	100	.....
Sept. 11	85	75	60	45	35	....	30	30	30	20	.....	.....	85	.....
1881—May 5	86	75	64	55	44	33	20	36	33	29	40	55	82	1[illegible]
Nov. 25	68	61	54	47	40	32	20	34	31	29	45	53	80	1[illegible]
1882—Jan. 1	68	61	54	47	40	32	20	34	31	29	40	47	80	1[illegible]
Apr. 12	68	61	54	47	40	32	20	30	20	19	37	43	80	[illegible]
July 20	68	61	54	47	40	32	20	26	20	19	37	42	80	[illegible]
Sept. 1	80	73	58	48	38	33	20	33	20	19	38	45	80	[illegible]
1883—May 1	78	72	57	47	36	32	20	27	19	18	36	47	85	[illegible]
1884—Apr. 10	69	63	51	43	35	33	20	28	19	18	38	48	38	[illegible]
1885—Feb. 18	69	63	51	43	35	33	20	28	19	18	38	48	38	[illegible]
July 15	69	63	51	43	35	33	20	28	21	20	38	48	82	[illegible]
1886—Mar. 1	69	63	51	43	35	33	20	28	21	20	38	48	82	[illegible]

* Rate per barrel. † Rate per 100 pounds.

TABLE 111.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, SAVANNAH, GA., TO CHATTANOOGA, TENN., FROM AUGUST 27, 1878.

Date.	Rates (in cents per 100 pounds).												Rates (in cents per barrel).	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1878—Aug. 27.....	100	85	70	55	45	....	40	40	35	25	*60	.....	100	.....
Sept. 11.....	85	75	60	45	35	....	30	30	30	20	*60	.....	85	.....
1879—Jan. 15.....	110	90	75	60	50	40	30	40	44	40	50	.....	80	175
1881—Nov. 25.....	68	61	54	47	40	32	20	34	31	29	45	52	60	104
1882—Jan. 1.....	68	61	54	47	40	32	20	34	31	29	40	47	60	104
Apr. 12.....	68	61	54	47	40	32	20	30	20	19	37	42	40	89
July 10.....	68	61	54	47	40	32	20	26	20	19	37	42	40	78
1883—May 1.....	80	73	58	48	38	33	20	33	20	19	38	48	40	99
1884—Apr. 10.....	69	63	51	43	35	33	20	28	20	19	38	48	40	84
1885—Feb. 18.....	69	63	51	43	35	33	20	28	20	19	38	48	40	67
July 15.....	69	63	51	43	35	33	20	28	22	21	38	48	44	67
1886—Mar. 1.....	69	63	51	43	35	33	20	28	22	21	38	48	44	128

* Rate per barrel. † Rate per 100 pounds.

TABLE 112.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL FROM SAVANNAH, GA., TO MONTGOMERY, ALA., FROM JANUARY 15, 1879.

Date.	Rates (in cents per 100 pounds).												Rates in cents per barrel.	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Jan. 15	105	90	75	60	50	35	30	35	35	25	50	.....	70	[illegible]
1880—Sept. 1	86	75	64	55	44	33	20	26	26	20	40	.....	62	[illegible]
1881—Sept. 1	68	61	54	47	40	32	24	29	26	24	40	47	56	[illegible]
Oct. 1	68	61	54	47	40	32	20	29	26	24	40	47	56	[illegible]
Nov. 25	68	61	54	47	40	32	20	34	31	29	45	52	56	[illegible]
1882—Jan. 1	68	61	54	47	40	32	20	34	31	29	40	47	56	[illegible]
Apr. 12	68	61	54	47	40	32	20	30	26	20	31	42	56	[illegible]
July 10	68	61	54	47	40	32	20	26	26	20	31	42	56	[illegible]
Sept. 1	80	73	58	48	38	33	20	33	29	19	38	48	66	[illegible]
1884—Apr. 10	69	63	51	43	35	33	20	28	29	19	38	48	60	[illegible]
1885—Feb. 18	69	63	51	43	35	33	20	28	26	19	38	48	60	[illegible]
July 15	69	63	51	43	35	33	20	28	22	21	38	48	56	[illegible]
1886—Mar. 1	69	63	51	43	35	33	20	28	22	21	38	48	44	[illegible]

* Rate per 100 pounds.

TABLE 113.—FREIGHT RATES IN DOLLARS PER TON OF 2,000 POUNDS CHARGED FOR THE TRANSPORTATION OF FERTILIZERS IN CARLOAD QUANTITIES FROM CHARLESTON, S. C., TO VARIOUS POINTS NAMED FROM OCTOBER 1, 1884.

From Charleston, S. C., to—	Oct. 1, 1884.	Dec. 10, 1884.	Nov. 4, 1885.	Nov. 29, 1885.	Feb. 8, 1886.	Dec. 1, 1886.	Jan. 20, 1887.	Oct. 20, 1887.	Dec. 20, 1887.	Dec. 1, 1888.	Jan. 4, 1889.	Nov. 18, 1889.	Jan. 1, 1890.	Dec. 7, 1891.	Jan. 20, 1892.	Nov. 16, 1892.
Albany, Ga....	$4.30	$4.30	$4.15	$4.15	$4.00	$4.00	$4.00	$3.45	$3.45	$3.00	$3.00	$3.00	$3.00	$2.75	$2.75	$2.50
Americus, Ga..	4.48	4.48	4.33	4.33	4.33	4.33	4.33	4.33	4.18	3.00	3.00	3.00	3.00	3.00	3.00	2.75
Anniston, Ala.	3.65	3.65	3.65	3.78	3.78	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Athens, Ga....	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.25	3.25
Atlanta, Ga....	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.14	3.14	3.14
Augusta, Ga...	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Birmingham, Ala.....	4.00	4.00	4.00	4.00	4.00	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.50	3.50	3.50
Brandon, Miss.	5.60	5.60	5.60	5.25	5.00	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
Buford, Ga.....	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.46	4.46	4.46	4.46	4.46	3.74	3.95	3.95
Calera, Ala	5.20	5.20	4.80	4.80	4.60	3.25	3.25	3.25	4.45	4.45	4.45	4.45	4.45	4.45	3.50	3.50
Carrollton, Ga.	4.84	4.84	4.69	4.69	4.69	4.69	4.69	4.69	4.54	3.66	3.67	3.66	3.66	3.36	3.36	3.36
Charlotte, N. C.	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.20	3.66	3.20	3.20	3.20	3.20	3.20	3.20
Chattanooga, Tenn	4.00	4.00	4.00	4.00	4.00	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Cincinnati, Ohio	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.50	4.25	4.25	4.80
Columbus, Ga .	4.30	4.30	4.00	4.00	3.50	4.00	4.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Columbus, Miss	5.60	5.60	5.60	5.25	5.00	4.60	4.60	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Corinth, Miss..	4.60	4.60	4.25	4.25	4.25	4.25	4.25	4.25	4.15	4.15	4.15	4.15	4.15	4.00	4.00	4.00
Dalton, Ga.....	3.65	3.65	3.65	3.78	3.78	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Gadsden, Ala..	4.60	4.60	4.60	4.60	4.60	4.20	4.20	4.20	4.20	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Grenada, Miss.	6.00	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.00	5.10	5.10	5.10	4.75	5.10	5.10	5.00
Greenville, Tenn	5.80	5.80	5.20	5.20	5.20	5.00	5.00	4.55	4.55	4.55	4.55	4.55	4.55	4.55	4.55	4.55
Hawkinsville, Ga.....	3.44	3.44	3.44	3.44	3.32	3.32	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.08	3.08	3.08
Henderson, Tenn	5.40	5.40	5.40	5.05	4.80	4.15	4.15	4.15	4.40	4.90	4.90	4.90	4.90	4.75	4.75	5.00
Hernando, Miss	5.75	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	.....
Humboldt, Tenn	5.60	5.60	5.60	5.25	5.00	4.45	4.45	4.45	4.70	5.20	5.20	5.20	5.20	5.20	5.20	5.20
Jackson, Miss.	5.60	5.60	5.60	5.25	5.00	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.00	4.00	4.50
Lauderdale, Miss.....	4.60	4.60	4.60	4.60	4.60	4.00	4.00	4.00	4.10	4.10	4.10	4.10	4.10	4.10	3.50	3.50
Louisville, Ky.	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.80
Macon, Ga.....	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.64	2.64	2.64
Marietta, Ga....	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.31	4.31	3.66	3.66	3.66	3.64	3.64	3.64
Memphis, Tenn	4.50	4.25	4.25	4.25	4.25	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Milledgeville, Ga.....	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.64	2.64	2.64
Mobile, Ala....	4.50	4.50	4.50	4.50	4.00	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Montgomery, Ala.....	4.00	4.00	4.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Nashville, Tenn	4.00	4.00	4.00	4.00	4.00	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.80
Newnan, Ga ...	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.25	3.25	3.25
Opelika, Ala...	4.40	4.40	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Pensacola, Fla.	4.50	4.50	4.50	4.50	4.00	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Pulaski, Tenn .	5.80	5.30	5.30	5.30	5.80	5.80	5.80	5.80	5.30	5.30	5.80	5.30	5.30	5.30	5.30	.....
Raleigh, N. C ..	5.00	5.00	5.00	5.00	4.50	4.75	4.75	4.50	4.40	4.40	4.40	4.40	4.40	4.20	4.20	4.20
Rives, Tenn ...	5.80	5.80	5.80	5.45	5.20	4.70	4.70	4.70	4.85	5.40	5.40	5.40	.....	.....	5.40	5.40
Rome, Ga.....	3.65	3.65	3.65	3.78	3.78	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Selma, Ala.....	4.00	4.00	4.00	4.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Spartanburg, S. C.....	4.69	4.69	2.29	2.29	3.89	4.00	4.00	4.21	4.21	4.21	4.21	4.21	4.21	3.60	3.60	3.60
Statesville, N.C	4.40	4.40	5.45	5.45	5.45	5.45	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40
Tecumseh, Ala	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20
Toomsuba, Miss	5.30	5.20	4.95	4.95	4.95	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20
Tupelo, Miss...	5.40	5.40	5.40	5.06	4.80	4.20	4.20	4.20	4.20	4.50	4.50	4.50	4.50	4.50	4.50	4.50
Vicksburg, Miss.....	5.00	5.00	5.00	4.50	4.50	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Washington, Ga.....	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.80	3.42	3.42	3.42	3.42	3.42	3.25	3.25

RATES ON CLASSIFIED TRAFFIC FROM NEW YORK TO ATLANTA, GA.

The following table shows the rates on various classes between the above-named points from 1869 to the present time.

Important reductions appear in the rates of each class, and similar changes have occurred from the other Eastern seaboard cities, and also to points other than Atlanta the rates to which are upon a basis similar to the Atlanta rates. The Southern Railway and Steamship Association classification governs these rates, in which it has been shown that many articles are now classified lower than formerly.

TABLE 114.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC FROM NEW YORK, TO ATLANTA, GA., DURING THE PERIOD FROM MAY, 1869.

Date.	Classes. (Rates in cents per 100 pounds.)					
	1.	2.	3.	4.	5.	6.
1869—May 1	198	168	130	115	100	
1873—May 12	170	140	110	90	80	
1877—July 1	145	125	100	80	60	
1879—Jan. 15	125	110	85	75	60	
1881—Sept. 1	100	90	80	70	58	
1884—Apr. 10	114	98	86	73	60	
1889—Sept. 3	108	90	80	66	55	
Oct. 14	114	98	86	73	60	

TABLE 115.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, NEW YORK TO SELMA, ALA., FROM JUNE 29, 1877.

Date.	Rates (in cents per 100 pounds).											Rates (in cents per barrel).	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1877—June 29	145	130	105	85	70	60	.....	.....	.....	.....	.....	.....	.....	.....
1879—Jan. 15	125	110	85	75	60	45	30	45	45	45	60	.....	85	150
Apr. 1	125	110	85	75	60	45	45	45	45	45	50	75	85	150
Sept. 19	125	110	85	75	60	45	34	45	45	45	50	75	85	150
1880—Sept. 1	126	110	94	81	65	49	30	53	49	43	58	81	91	156
1881—May 5	126	110	94	81	65	49	36	53	49	43	58	81	91	156
Sept. 1	100	90	80	70	58	48	36	42	38	35	58	69	74	129
Oct. 1	100	90	80	70	58	48	30	42	38	35	58	69	74	129
Nov. 25	100	90	80	70	58	48	36	47	43	40	63	74	84	145
1882—Jan. 1	100	90	80	70	58	48	36	47	43	40	58	69	84	145
Apr. 12	100	90	80	70	58	48	30	43	38	35	54	62	78	131
July 10	100	90	80	70	58	48	30	38	35	32	54	62	64	114
Sept. 1	125	108	93	78	63	49	36	53	40	39	58	68	78	159
1884—Apr. 10	114	98	86	73	60	49	36	48	40	39	58	68	78	144
1885—Feb. 13	114	98	86	73	60	49	36	48	40	39	58	68	78	115
1886—Mar. 1	114	98	86	73	60	49	36	48	40	39	58	68	78	*48

* Cents per 100 pounds.

TABLE 105.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF COMPRESSED COTTON FROM NEW ORLEANS, LA., TO NEW YORK AND BOSTON BY STEAMER FROM SEPTEMBER, 1875.

[There being no regular steamers from New Orleans to Boston, cotton for the latter point is shipped via steamer to New York, and thence via rail or water to destination.]

[Rates in cents, per 100 pounds.]

Date.	To New York.	To Boston.	Date.	To New York.	To Boston.	Date.	To New York.	To Boston.
1875—Sept. 1	62½	.....	1880—Jan. 3	.....	62½	1886—Feb. 24	.....	[illegible]
Sept. 13	30	.....	Feb. 18	50	.....	Sept. 9	35	[illegible]
Sept. 15	50	68¾	Mar. 10	37½	50	1887—Mar. 24	25	[illegible]
Sept. 29	.....	75	Sept. 2	50	.....	Sept. 2	40	[illegible]
Oct. 22	.....	68¾	Sept. 4	.....	62½	1888—Feb. 28	.....	[illegible]
Oct. 27	62½	.....	Oct. 27	.....	55	June 29	25	[illegible]
Oct. 28	75	100	Nov. 10	40	.....	Aug. 30	40	[illegible]
Nov. 22	.....	87½	1881—Nov. 9	35	.....	Sept. 27	51	[illegible]
Dec. 9	87½	100	Nov. 10	.....	50	Oct. 15	.....	[illegible]
1876—Jan. 6	75	.....	1882—Mar. 15	30	.....	Dec. 18	41	.....
Jan. 14	.....	87½	Sept. 30	42	.....	Dec. 19	.....	[illegible]
Jan. 27	62½	75	Oct. 17	.....	54–60	1889—Aug. 20	40	.....
Feb. 24	56¼	62½	1883—Jan. 2	50	.....	Oct. 8	51	[illegible]
Mar. 11	50	.....	Jan. 5	.....	60	Oct. 29	46	[illegible]
Oct. 7	62½	75	Jan. 12	40	52	1890—Feb. 15	33	[illegible]
Nov. 29	75	87½	Jan. 25	35	50	Sept. 15	45	[illegible]
1877—Jan. 5	62½	75	June 22	30	.....	1891—Feb. 9	35	[illegible]
Jan. 11	50	62½	Nov. 7	40	55	Sept. 21	46	[illegible]
Mar. 3	47½	.....	1884—Jan. 11	25	40	1892—Feb. 11	32	[illegible]
May 19	31¼	.....	Mar. 22	30	.....	Sept. 14	32	[illegible]
June 5	47½	.....	Apr. 3	.....	45	1893—Jan. 14	30	[illegible]
June 11	50	.....	Apr. 5	.....	43–45			
Nov. 14	62½	75	May 1	25	.....			
Nov. 21	75	.....	May 2	.....	38–40			
Nov. 22	.....	87½	Sept. 16	30	.....			
Dec. 21	62½	75	Nov. 24	40	53–55			
1878—Jan. 3	50	62½	1885—Jan. 8	30	43–45			
1879—Feb. 10	37½	50	May 14	25	38–40			
Oct. 7	50	.....	Sept. 25	35	.....			
Nov. 29	.....	75	Sept. 26	.....	43–48			
Dec. 1	62½	.....	1886—Feb. 18	25	.....			

TABLE 106.—RATES IN CENTS PER 100 POUNDS CHARGED FOR THE TRANSPORTATION OF COMPRESSED COTTON VIA RAIL FROM POINTS IN GEORGIA AND ALABAMA TO THE VARIOUS ATLANTIC SEABOARD CITIES DURING 1886, 1890, AND 1893.

[Rates in cents per 100 pounds.]

To—	From—																	
	Atlanta, Ga.			Augusta, Ga.			Chattanooga, Tenn., Dalton, Ga.			Macon, Ga.			Rome, Ga.			Montgomery, Ala., Selma, Ala.		
	1886	1890	1893	1886	1890	1893	1886	1890	1893	1886	1890	1893	1886	1890	1893	1886	1890	1893
Brunswick, Ga	45	43	43	....	....	....	45	45	51	40	34	34	45	45	51	....	45	45
Savannah, Ga	45	43	43	27	25	25	45	45	51	40	34	34	45	45	51	45	45	45
Port Royal, S. C	45	43	43	27	25	25	45	45	51	40	34	34	45	45	51	45	45	45
Charleston, S. C																		
Wilmington, N. C	45	43	43	27	25	25	45	45	51	40	34	34	45	45	51	45	45	45
Richmond, Va	56	54	54	40	36	36	56	56	62	53	45	45	56	56	62	56	56	56
West Point, Va																		
Petersburg, Va	56	54	54	40	36	36	56	56	62	53	45	45	56	56	62	56	56	56
Portsmouth, Va	56	54	54	40	36	36	56	56	62	53	45	45	56	56	62	56	56	56
Norfolk, Va																		
Baltimore, Md	67	59	59	51	41	41	67	61	67	64	50	50	67	61	67	67	61	61
New York, N. Y	75	64	64	57	46	46	75	66	72	70	55	55	75	66	72	75	66	66
Philadelphia, Pa																		
Providence, R. I	85	69	69	67	51	51	85	71	77	80	60	60	85	71	77	85	71	71
Boston, Mass																		

RATES ON ORANGES FROM SOUTHERN POINTS TO EASTERN CITIES.

Three tables are next presented showing the changes in the rates on oranges from Jacksonville, Fla., to Eastern cities. Three principal routes are employed for the carriage of this traffic, one via all rail, the second via rail to Norfolk and Portsmouth, Va., and thence via water, and the third via rail to Savannah, Ga., and thence via water. The charges by each vary, the water lines charging lower rates than via all rail. Each table shows the changes which have taken place in these rates so far as the data have been obtainable.

TABLE 107.—RATES ON ORANGES FROM JACKSONVILLE, FLA., TO POINTS NAMED, VIA SAVANNAH, ALL RAIL, FROM DECEMBER 6, 1887.

Taking effect—	Rates in cents.							
	To Baltimore, Md.		To Philadelphia, Pa.		To New York, N. Y.		To Boston, Mass.	
	Per box.	Per barrel.	Per box.	Per barrel.	Per box.	Per barrel.	Per box.	Per barrel.
1887—Dec. 6	40	80	40	80	40	80	40	80
1888—Oct. 8	40	80	41	81	43	85	49	98
1889—Sept. 21	40	80	41	81	43	85	49	98
1890—Nov. 23	50	100	51	102	53	106	59	118
1892—Jan. 2	50	100	51	102	53	106	61	122
Nov. 1	50	100	51	102	53	106	61	122

TABLE 108.—RATES ON ORANGES FROM JACKSONVILLE, FLA., TO POINTS NAMED, VIA SAVANNAH, RAIL TO NORFOLK OR PORTSMOUTH, AND THENCE VIA WATER, FROM OCTOBER 15, 1883.

Taking effect—	Rates in cents.							
	To Baltimore, Md.		To Philadelphia, Pa.		To New York, N. Y.		To Boston, Mass.	
	Per box.	Per barrel.	Per box.	Per barrel.	Per box.	Per barrel.	Per box.	Per barrel.
1883—Oct. 15	60	120	60	120	60	120	65	130
Dec. 7	50	100	50	100	50	100	60	120
1884—Oct. 15	30	60	30	60	30	60	45	90
1885—Jan. 12	40	80	40	80	40	80	54	96
1886—Nov. 1	.....	.....	.....	.....	.....	.....	40	60
Nov. 30	35	70	35	70	35	70	35	70
1888—Oct. 1	.....	.....	.....	.....	.....	.....	38	76
1889—Oct. 15	37½	75	37½	75	37½	75	40½	81
1890—Nov. 23	47½	95	47½	95	47½	95	50½	101
1892—Jan. 2	47½	95	47½	95	47½	95	50½	101
Nov. 1	47½	95	47½	95	47½	95	50½	101

TABLE 109.—RATES ON ORANGES FROM JACKSONVILLE, FLA., TO POINTS NAMED VIA SAVANNAH AND STEAMSHIP, FROM OCTOBER 3, 1881.

Taking effect—	Rates in cents.							
	To Baltimore, Md.		To Philadelphia, Pa.		To New York, N. Y.		To Boston, Mass	
	Per box.	Per barrel.	Per box.	Per barrel.	Per box.	Per barrel.	Per box.	Per barrel.
1881—Oct. 3	50	100	50	100	50	100	50	
1883—Oct. 15	50	100	50	100	50	100	50	
Nov. 15	50	100	50	100	50	100	50	
1884—Oct. 6	30	60	30	60	30	60	30	
1885—Jan. 12	40	80	40	80	40	80	40	
Sept. 7	40	80	40	80	40	80	40	
1886—Sept. 15	40	80	40	80	40	80	40	
Nov. 18	30	60	30	60	30	60	30	
1887—Sept. [illegible]	30	60	30	60	30	60	30	
Sept. 15	30	60	30	60	30	60	30	
1889—Sept. 20	30	60	30	60	30	60	35	
1890—Nov. 24	40	80	40	80	40	80	45	
1892—Jan. 2	40	80	40	80	40	80	45	
Nov. 1	40	80	40	80	40	80	45	

TABLE 110.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, SAVANNAH TO ATLANTA, GA., FROM AUGUST 27, 1878.

Date.	Rates (in cents per 100 pounds).												Rates in cents per barrel.	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meat, bacon, pork, and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels
1878—Aug. 27	100	85	70	55	40	....	40	40	35	25	*60	.....	100	.....
Sept. 11	85	75	60	45	35	....	30	30	30	20	.....	.....	85	.....
1881—May 5	86	75	64	55	44	33	20	36	33	29	40	55	62	[illegible]
Nov. 25	68	61	54	47	40	32	20	34	31	29	45	52	60	[illegible]
1882—Jan. 1	68	61	54	47	40	32	20	34	31	29	40	47	60	[illegible]
Apr. 12	68	61	54	47	40	32	20	30	20	19	37	42	40	[illegible]
July 20	68	61	54	47	40	32	20	26	20	19	37	42	40	[illegible]
Sept. 1	80	73	58	48	38	33	20	33	20	19	38	48	40	[illegible]
1883—May 1	78	72	57	47	36	32	20	27	19	18	36	47	38	[illegible]
1884—Apr. 10	69	63	51	43	35	33	20	28	19	18	38	48	38	[illegible]
1885—Feb. 18	69	63	51	43	35	33	20	28	19	18	38	48	38	[illegible]
July 15	69	63	51	43	35	33	20	28	21	20	38	48	42	[illegible]
1886—Mar. 1	69	63	51	43	35	33	20	28	21	20	38	48	42	[illegible]

* Rate per barrel. † Rate per 100 pounds.

TABLE 111.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL, SAVANNAH, GA., TO CHATTANOOGA, TENN., FROM AUGUST 27, 1878.

Date.	Rates (in cents per 100 pounds).												Rates (in cents per barrel).	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1878—Aug. 27.....	100	85	70	55	45	....	40	40	35	25	*60	.....	100	.....
Sept. 11.....	85	75	60	45	35	....	30	30	30	20	*60	.....	85	.....
1879—Jan. 15.....	110	90	75	60	50	40	30	40	44	40	50	.....	80	175
1881—Nov. 25.....	68	61	54	47	40	32	20	34	31	29	45	52	60	104
1882—Jan. 1.....	68	61	54	47	40	32	20	34	31	29	40	47	60	104
Apr. 12.....	68	61	54	47	40	32	20	30	20	19	37	42	40	89
July 10.....	68	61	54	47	40	32	20	26	20	19	37	42	40	78
1883—May 1.....	80	73	58	48	38	33	20	33	20	19	38	48	40	99
1884—Apr. 10.....	69	63	51	43	35	33	20	28	20	19	38	48	40	84
1885—Feb. 18.....	69	63	51	43	35	33	20	28	20	19	38	48	40	67
July 15.....	69	63	51	43	35	33	20	28	22	21	38	48	44	67
1886—Mar. 1.....	69	63	51	43	35	33	20	28	22	21	38	48	44	128

* Rate per barrel. † Rate per 100 pounds.

TABLE 112.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC AND IMPORTANT COMMODITIES VIA ALL-RAIL FROM SAVANNAH, GA., TO MONTGOMERY, ALA., FROM JANUARY 15, 1879.

Date.	Rates (in cents per 100 pounds).												Rates in cents per barrel.	
	1.	2.	3.	4.	5.	6.	Bagging and cotton ties.	Lard, meats, bacon, pork, and packed and loose meats (carloads).	Flour in sacks.	Grain.	Ale and beer in wood.	Whisky in wood.	Flour in barrels.	Beef and pork in barrels.
1879—Jan. 15	105	90	75	60	50	35	20	35	35	25	50	------	70	120
1880—Sept. 1	86	75	64	55	44	33	20	35	33	29	40	------	62	120
1881—Sept. 1	68	61	54	47	40	32	24	29	28	24	40	47	62	120
Oct. 1	68	61	54	47	40	32	20	29	28	24	40	47	62	120
Nov. 25	68	61	54	47	40	32	20	24	31	29	45	52	62	120
1882—Jan. 1	68	61	54	47	40	32	20	24	31	29	40	47	62	120
Apr. 12	68	61	54	47	40	32	20	30	30	20	31	42	62	120
July 10	68	61	54	47	40	32	20	28	30	20	31	42	62	120
Sept. 1	80	73	58	48	38	33	20	33	30	19	38	48	62	120
1884—Apr. 10	69	63	51	43	35	33	20	28	30	19	38	48	62	120
1885—Feb. 18	69	63	51	43	35	33	20	28	28	19	38	48	62	120
July 15	69	63	51	43	35	33	20	28	22	21	38	48	62	120
1886—Mar. 1	69	63	51	43	35	33	20	28	22	21	38	48	44	120

* Rate per 100 pounds.

TABLE 113.—FREIGHT RATES IN DOLLARS PER TON OF 2,000 POUNDS CHARGED FOR THE TRANSPORTATION OF FERTILIZERS IN CARLOAD QUANTITIES FROM CHARLESTON, S. C., TO VARIOUS POINTS NAMED FROM OCTOBER 1, 1884.

From Charleston, S. C., to—	Oct. 1, 1884.	Dec. 10, 1884.	Nov. 5, 1886.	Nov. 28, 1885.	Feb. 8, 1886.	Dec. 1, 1886.	Jan. 20, 1887.	Oct. 20, 1887.	Dec. 20, 1887.	Dec. 1, 1888.	Jan. 8, 1889.	Nov. 18, 1889.	Jan. 1, 1890.	Dec. 7, 1891.	Jan. 20, 1892.	Nov. 16, 1892.
Albany, Ga....	$4.30	$4.30	$4.15	$4.15	$4.00	$4.00	$4.00	$3.45	$3.45	$3.00	$3.00	$3.00	$3.00	$2.75	$2.75	$2.50
Americus, Ga..	4.48	4.48	4.33	4.33	4.33	4.33	4.33	4.33	4.18	3.00	3.00	3.00	3.00	3.00	3.00	2.75
Anniston, Ala.	3.65	3.65	3.65	3.78	3.78	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Athens, Ga....	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.25	3.25	3.25
Atlanta, Ga....	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.14	3.14	3.14
Augusta, Ga...	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Birmingham, Ala.....	4.00	4.00	4.00	4.00	4.00	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.50	3.50	3.50
Brandon, Miss.	5.60	5.60	5.60	5.25	5.00	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
Buford, Ga.....	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.46	4.46	4.46	4.46	4.46	3.74	3.95	3.95
Calera, Ala	5.20	5.20	4.80	4.80	4.60	3.25	3.25	3.25	4.45	4.45	4.45	4.45	4.45	4.45	3.50	3.50
Carrollton, Ga.	4.84	4.84	4.69	4.69	4.69	4.69	4.69	4.69	4.54	3.66	3.67	3.66	3.66	3.36	3.36	3.36
Charlotte, N. C.	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.20	3.66	3.20	3.20	3.20	3.20	3.20	3.20
Chattanooga, Tenn	4.00	4.00	4.00	4.00	4.00	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Cincinnati, Ohio	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.50	4.25	4.25	4.80
Columbus, Ga .	4.30	4.30	4.00	4.00	3.50	4.00	4.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Columbus, Miss	5.60	5.60	5.60	5.25	5.00	4.60	4.60	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Corinth, Miss..	4.60	4.60	4.25	4.25	4.25	4.25	4.25	4.25	4.15	4.15	4.15	4.15	4.15	4.15	4.00	4.00
Dalton, Ga.....	3.65	3.65	3.65	3.78	3.78	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Gadsden, Ala..	4.60	4.60	4.60	4.60	4.60	4.20	4.20	4.20	4.20	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Grenada, Miss.	6.00	5.75	5.75	5.75	5.75	5.75	5.75	5.75	5.00	5.10	5.10	5.10	4.75	5.10	5.10	5.00
Greenville, Tenn	5.80	5.80	5.20	5.20	5.20	5.00	5.00	4.55	4.55	4.55	4.55	4.55	4.55	4.55	4.55	4.55
Hawkinsville, Ga.....	3.44	3.44	3.44	3.44	3.32	3.32	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.08	3.08	3.08
Henderson, Tenn	5.40	5.40	5.40	5.05	4.80	4.15	4.15	4.15	4.40	4.90	4.90	4.90	4.90	4.75	4.75	5.00
Hernando, Miss	5.75	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	5.50	.....
Humboldt, Tenn	5.60	5.60	5.60	5.25	5.00	4.45	4.45	4.45	4.70	5.20	5.20	5.20	5.20	5.20	5.20	5.20
Jackson, Miss .	5.60	5.60	5.60	5.25	5.00	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.00	4.00	4.50
Lauderdale, Miss.....	4.60	4.60	4.60	4.60	4.60	4.00	4.00	4.00	4.10	4.10	4.10	4.10	4.10	4.10	3.50	3.50
Louisville, Ky.	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.25	4.80
Macon, Ga.....	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.64	2.64	2.64
Marietta, Ga...	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.31	4.31	3.66	3.66	3.66	3.64	3.64	3.64
Memphis, Tenn	4.50	4.25	4.25	4.25	4.25	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Milledgeville, Ga.....	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.88	2.64	2.64	2.64
Mobile, Ala....	4.50	4.50	4.50	4.50	4.00	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Montgomery, Ala.....	4.00	4.00	4.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Nashville, Tenn	4.00	4.00	4.00	4.00	4.00	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.75	3.80
Newnan, Ga...	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.25	3.25	3.25
Opelika, Ala...	4.40	4.40	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Pensacola, Fla.	4.50	4.50	4.50	4.50	4.00	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Pulaski, Tenn .	5.80	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	.....
Raleigh, N. C ..	5.00	5.00	5.00	5.00	4.50	4.75	4.75	4.50	4.40	4.40	4.40	4.40	4.40	4.20	4.20	4.20
Rives, Tenn ...	5.80	5.80	5.80	5.45	5.20	4.70	4.70	4.70	4.85	5.40	5.40	5.40	.....	.....	5.40	5.40
Rome, Ga.....	3.65	3.65	3.65	3.78	3.78	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
Selma, Ala.....	4.00	4.00	4.00	4.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00
Spartanburg, S. C.....	4.69	4.69	2.29	2.29	3.89	4.00	4.00	4.21	4.21	4.21	4.21	4.21	4.21	3.60	3.60	3.60
Statesville, N.C	4.40	4.40	5.45	5.45	5.45	5.45	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40
Tecumseh, Ala	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20
Toomsuba, Miss	5.30	5.20	4.95	4.95	4.95	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20	4.20
Tupelo, Miss...	5.40	5.40	5.40	5.05	4.80	4.20	4.20	4.20	4.20	4.50	4.50	4.50	4.50	4.50	4.50	4.50
Vicksburg, Miss.....	5.00	5.00	5.00	4.50	4.50	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
Washington, Ga.....	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.80	3.42	3.42	3.42	3.42	3.42	3.25	3.25

.BLE 122.—RATES OF FREIGHT, ALL RAIL, FROM MISSOURI RIVER POINTS TO SAN FRANCISCO, PORTLAND, LOS ANGELES, AND OTHER PACIFIC COAST TERMINAL POINTS.

Date.	Commodities (rates in cents per 100 pounds).																					
	Dry goods.	Cotton piece goods.	Furniture.		Stoves.		Canned goods.		Glassware.		Starch.		Drugs.	Crockery and earthenware.		Nails.		Hardware.	Agricultural implements.		Beer.	
			Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.		Less than carloads.	Carloads.	Less than carloads.	Carloads.
1870—Feb. 10	625	625	.....	.....	.....	.....	550	550	625	625	625	625	.....	.....	.....	.....	500	550	.....	285	550	550
1876—Nov. 1	450	625	.....	185	185	185	150	150	200	200	150	150	225	200	200	150	150	225	.....	200	225	225
1880—Jan. 1	450	375	.....	225	185	185	145	145	200	200	145	145	300	200	200	145	145	300	.....	200	300	200
1882—Oct. 2	455	375	.....	235	185	185	135	135	210	210	135	135	300	210	210	135	135	300	.....	210	300	210
1885—Jan. 1	375	185	.....	185	185	100	110	100	110	110	100	100	220	110	110	100	100	185	.....	130	160	140
Mar. 16	350	175	.....	140	175	88	105	88	105	105	88	88	210	105	105	88	88	175	.....	123	140	123
1886—Apr. 26	175	87½	.....	70	87½	50	52½	50	52½	52½	50	50	105	52½	52½	88	50	87½	.....	61½	140	50
1887—Apr. 5	400	400	.....	250	300	225	250	225	300	300	300	255	400	250	250	250	225	350	.....	210	140	200
Apr. 27	210	105	.....	91	105	70	250	70	77	77	77	70	140	77	77	77	70	105	.....	84	140	84
June 16	210	105	.....	123	105	70	77	70	77	77	77	70	140	77	77	77	70	105	.....	84	91	84
1888—Mar. 6	280	125	125	125	125	125	125	125	100	100	85	80	175	95	80	85	80	125	125	95	100	95
Sept. 1	280	125	180	140	125	125	125	125	100	100	85	80	175	95	80	85	80	125	300	300	160	100
1889—Jan. 1	351	176	135	135	125	99	125	99	117	117	135	99	*270	135	99	135	135	176	300	107	166	99
1891—Jan. 15	350	189	189	113	125	117	125	107	131	131	149	107	*302	149	99	149	149	189	300	113	160	99
1892—July 18	350	189	189	113	125	117	153	107	131	131	149	107	*302	149	99	149	149	189	300	113	160	99

*Lower rates for carloads.

TRANSCONTINENTAL TRAFFIC EASTWARD BOUND.

Through rates from the Pacific coast are established by transcontinental lines on traffic destined to the Missouri River and grouped territory east thereof. Traffic carried thereunder is known as "eastward bound transcontinental traffic."

Important reductions have taken place in these rates during the last twenty years. The tables following show such changes from the several Pacific coast points to a representative point in each of the groups to which through rates are published.

TABLE 123.—FREIGHT RATES, ALL RAIL, FROM SAN FRANCISCO AND LOS ANGELES, CAL., PORTLAND, OREGON, TACOMA AND SEATTLE, WASH., AND VANCOUVER, BRITISH COLUMBIA, TO OMAHA, NEBR.

Date.	Rates (in cents per 100 pounds).																					
	Canned goods.		Coffee, green.		Fruit, dried.		Hides, compressed.		Leather, in rolls.		Nuts.		Beans.		Raisins.		Vegetables.		Wine, in wood.		Hops.	
	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
1870—Feb. 10	550	550	500	500	550	550	625	625	500	500	625	625	500	500	625	625	.....	.....	400	400	550	550
1876—July 17	550	550	500	500	550	550	625	625	500	500	625	625	500	500	625	625	.....	212½	400	400	550	550
1878—June 15	550	550	500	500	550	550	625	625	500	500	625	625	500	500	625	625	.....	185	400	400	550	550
1881—May 21	150	150	185	150	200	185	185	150	200	185	275	185	170	125	200	150	.....	185	170	150	225	225
July 25	150	140	190	150	205	190	190	150	205	190	280	190	175	125	205	150	.....	185	175	150	230	230
Oct. 6	140	140	180	140	200	140	180	140	200	180	285	180	160	140	200	140	.....	135	160	140	220	220
1884—Aug. 25	140	125	180	140	200	180	180	140	200	180	285	180	160	140	200	140	.....	135	160	140	220	220
1885—Feb. 9	140	125	180	140	200	180	180	140	200	180	285	180	160	116⅔	200	140	.....	135	160	140	220	220
Mar. 15	140	125	180	140	200	180	180	140	200	180	285	180	160	116⅔	200	140	.....	140	160	140	220	220
Dec. 1	130	125	150	115	180	130	180	130	200	180	210	180	150	115	190	130	.....	140	150	130	210	210
1886—Apr. 26	65	62½	75	57½	90	65	90	65	200	90	105	90	75	57½	95	65	75	65	150	130	210	210
Aug. 16	130	90	150	115	180	130	180	130	200	180	210	180	150	60	190	130	75	65	75	62	210	210
1887—Apr. 5	250	140	250	225	300	250	180	350	350	350	400	300	300	140	350	300	.....	110	.....	300	175	175
Apr. 27	130	125	150	115	180	130	180	130	.....	180	210	180	150	115	.....	.....	.....	90	180	115	175	175
May 25	130	125	123	88	140	105	140	105	.....	140	175	140	128	88	151	105	.....	90	123	88	140	140
June 16	130	88	128	88	140	105	140	70	.....	140	175	140	123	88	.....	.....	.....	90	.....	26	140	140
July 18	105	75	123	88	140	105	70	70	.....	140	175	140	123	88	150	105	.....	90	123	88	140	126
Oct. 10	105	75	123	88	140	105	88	88	.....	70	175	140	123	75	150	105	.....	90	123	80	126	126
1888—Jan. 16	165	75	140	110	155	125	88	88	240	70	190	190	123	75	165	125	300	90	128	80	126	126
Mar. 10	165	125	140	110	155	125	110	110	125	125	190	190	140	100	165	125	300	90	155	110	155	155
July 6	165	110	140	110	155	125	110	110	125	125	190	100	140	100	165	125	300	90	155	110	155	155
Sept. 1	200	110	200	175	180	140	300	300	300	300	300	180	200	100	300	250	350	100	350	350	200	200
1889—Jan. 1	200	110	200	175	200	140	300	135	300	300	300	180	200	100	300	250	350	100	350	350	200	200
Jan. 10	200	110	200	175	200	140	300	135	300	300	300	180	200	100	300	250	350	100	350	350	200	200
Mar. 1	200	120	200	175	200	140	300	135	300	300	300	180	200	100	300	250	350	100	350	350	200	200
May 23	200	100	200	175	200	120	300	135	300	300	300	180	200	100	300	250	350	100	350	350	200	200
Aug. 20	200	100	200	175	200	120	300	135	300	300	300	180	200	100	300	250	350	100	350	100	200	200
Aug. 24	200	100	200	175	200	120	300	135	300	300	300	180	200	100	300	250	350	100	350	100	200	200
Sept. 1	200	100	200	175	200	140	300	135	300	300	300	180	200	100	300	250	350	100	350	100	200	200
Oct. 1	200	100	200	175	200	140	300	135	300	300	300	180	200	100	300	250	350	100	350	350	200	200
Nov. 1	200	100	200	175	200	140	300	135	300	300	300	180	200	100	300	250	350	100	205	100	200	200

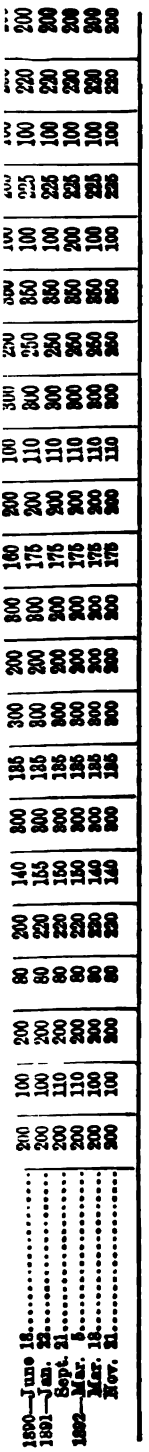

1890—June 16.
1891—Jan. 22.
Sept. 21.
1892—Mar. 1.
Mar. 16.
Nov. 21.

TABLE 124.—FREIGHT RATES, ALL RAIL, FROM SAN FRANCISCO AND LOS ANGELES, CAL., PORTLAND, OREGON, TACOMA AND SEATTLE, WASH., AND VANCOUVER, BRITISH COLUMBIA, TO ST. LOUIS, MO.

Date.	Rates (in cents per 100 pounds).																					
	Canned goods.		Coffee, green.		Fruit, dried.		Hides, compressed.		Leather, in rolls.		Nuts.		Beans.		Raisins.		Vegetables.		Wine, in wood.		Hops.	
	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
1870—Feb. 10	420	420	.....	.....	420	420	520	520	520	520	520	520	.....	.....	420	420	.....	.....	420	420	420	420
1876—Feb. 17	420	420	.....	.....	420	420	520	520	520	520	520	520	.....	.....	420	420	.....	250	420	420	420	420
1877—Feb. 16	420	420	.....	.....	420	420	520	520	520	520	520	520	.....	.....	420	420	.....	250	420	420	420	420
1878—June 15	420	420	.....	.....	420	420	520	520	520	520	520	520	.....	.....	420	420	.....	200	420	420	420	420
1881—May 21	150	150	200	150	225	200	200	150	225	200	300	200	175	125	225	150	.....	200	175	150	250	250
Oct. 6	142	142	192	142	217	142	192	142	217	192	315	192	168	142	217	142	.....	142	168	142	242	242
1884—Aug. 25	142	125	192	142	217	192	192	142	217	192	315	192	168	142	217	142	.....	142	168	142	242	242
1885—Feb. 9	142	125	192	142	217	192	192	142	217	192	315	192	168	118½	217	142	.....	142	168	142	242	242
Mar. 15	142	125	192	142	217	192	192	142	217	192	315	192	168	118½	217	142	.....	145	168	142	242	242
Dec. 1	140	125	165	120	190	140	190	140	.....	190	240	190	165	120	205	140	.....	.....	165	140	240	240
1886—Apr. 26	70	62½	82½	60	95	70	95	70	.....	95	120	95	82½	60	120	60	102½	70	82½	70	240	240
Aug. 16	140	90	165	120	190	140	190	140	.....	190	240	190	165	60	205	140	.....	.....	82½	70	240	240
Sept. 27	140	90	165	120	190	140	190	140	.....	190	240	190	165	60	205	140	.....	.....	82½	70	240	100
1887—Apr. 5	265	150	265	235	320	265	.....	385	385	.....	450	320	320	150	385	320	.....	120	.....	320	185	185
Apr. 27	140	125	165	120	190	140	190	140	.....	190	240	190	165	120	.....	.....	.....	96	190	120	185	185
May 25	140	125	134	96	154	115	154	115	.....	154	192	154	134	96	165	115	.....	.....	134	96	154	154
June 16	140	96	134	96	154	115	154	77	.....	154	192	154	134	96	.....	.....	.....	96	.....	138	154	154
July 18	115	75	134	96	154	115	77	77	.....	154	192	150	134	96	165	115	.....	.....	134	96	.....	138
Oct. 10	115	75	134	96	154	115	96	96	.....	77	192	154	134	83	165	115	.....	96	134	80	138	138
1888—Jan. 16	170	75	145	110	160	125	96	96	245	77	195	195	170	83	170	125	315	96	315	80	138	138
Mar. 10	170	125	145	110	160	125	110	110	245	245	195	195	145	100	170	125	315	96	160	110	160	160
July 5	170	110	145	110	160	125	110	110	245	245	195	195	145	100	170	125	315	96	160	110	160	160
Sept. 1	205	110	205	180	180	140	320	320	320	320	300	160	205	100	320	260	370	100	370	370	200	200
Sept. 20	205	110	205	110	180	140	320	320	320	320	300	160	205	100	320	200	370	100	370	370	200	200
1889—Jan. 1	205	110	205	110	200	140	320	135	320	320	300	160	205	100	320	260	370	100	370	370	200	200
Jan. 10	205	110	205	180	200	140	320	135	320	320	300	160	205	100	320	260	370	100	370	370	200	200
Mar. 1	205	120	205	180	200	140	320	135	320	320	300	160	205	100	320	260	370	100	370	370	320	320
Apr. 10	205	120	205	180	200	140	320	135	320	320	300	160	205	100	320	260	370	240	370	370	320	320
May 23	205	100	205	180	200	120	320	135	320	320	300	160	205	100	320	260	370	240	370	370	320	320
Aug. 20	205	100	205	180	200	120	320	135	320	320	300	160	205	100	320	260	370	240	370	100	320	320
Aug. 24	205	100	205	180	200	120	320	135	320	320	300	160	205	100	320	260	370	240	370	100	320	320
Sept. 1	205	100	205	180	200	140	320	135	320	320	300	160	205	100	320	260	370	240	370	100	320	320
Oct. 1	205	100	205	180	200	140	320	135	320	320	300	160	205	100	320	260	370	240	370	100	320	320
Nov. 1	205	100	205	180	200	140	320	135	320	320	300	160	205	100	320	260	370	100	370	100	320	320

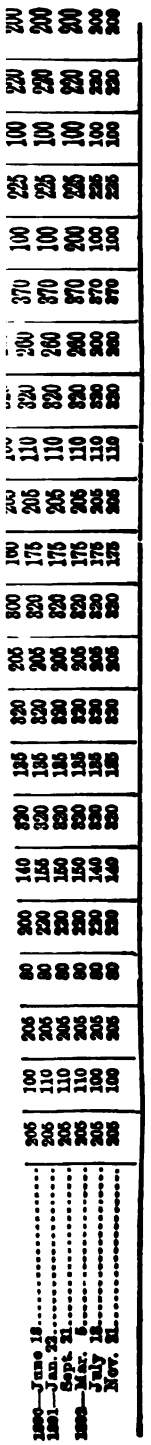

1890—June 18
1891—Jan. 22
Sept. 21
1892—May 6
July 18
Nov. 21

TABLE 125.—FREIGHT RATES, ALL RAIL, FROM SAN FRANCISCO AND LOS ANGELES, CAL., PORTLAND, OREGON, TACOMA AND SEATTLE, WASH., AND VANCOUVER, BRITISH COLUMBIA, TO CHICAGO, ILL.

Date.	Rates (in cents per 100 pounds).																					
	Canned goods.		Coffee, green.		Fruit, dried.		Hides, compressed.		Leather in rolls.		Nuts.		Beans.		Raisins.		Vegetables.		Wine, in wood.		Hops.	
	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
1870—Feb. 10	420	420	.....	.....	420	420	520	520	520	520	520	520	.....	.....	420	420	.....	.....	420	420	420	420
1876—July 17	420	420	.....	.....	420	420	520	520	520	520	520	520	.....	.....	420	420	.....	250	420	420	420	420
1877—July 16	420	420	.....	.....	420	420	520	520	520	520	520	520	.....	.....	420	420	.....	250	420	420	420	420
1878—June 15	420	420	.....	.....	420	420	520	520	520	520	520	520	.....	.....	420	420	.....	200	420	420	420	420
1881—May 21	150	150	200	150	225	200	200	150	225	200	300	200	175	125	225	150	.....	200	175	150	420	250
July 25	150	150	200	150	225	200	200	150	225	200	300	200	175	125	225	150	.....	200	175	150	250	250
Oct. 6	150	150	200	150	225	150	200	150	225	150	325	200	175	150	225	150	.....	150	175	150	250	250
1884—Aug. 25	150	125	200	150	225	200	325	200	225	200	325	200	175	150	225	150	.....	150	175	150	250	250
1885—Feb. 9	150	125	200	150	225	200	325	200	225	200	325	200	175	125	225	150	.....	150	175	150	250	250
Mar. 15	150	125	200	150	225	200	325	200	225	200	325	200	175	125	225	150	.....	150	175	150	250	250
Dec. 1	150	125	175	125	200	150	200	150	225	200	250	200	175	125	215	150	.....	150	175	150	250	250
1886—Mar. 4	37½	37½	37½	37½	37½	37½	37½	37½	37½	37½	37½	37½	37½	37½	37½	37½	.....	37½	37½	37½	37½	37½
Mar. 10	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	.....	30	30	30	30	30
Apr. 26	75	62½	87½	62½	100	75	100	75	.....	100	125	100	87½	62½	107½	75	87½	75	.....	.....	.....	.....
Aug. 16	150	90	175	125	200	150	200	150	.....	200	250	200	175	60	215	150	.....	.....	87½	75	250	250
Nov. 24	150	90	175	125	200	150	200	150	.....	200	250	200	175	60	215	150	.....	.....	87½	75	250	105
1887—Apr. 5	275	155	275	245	335	275	.....	400	400	400	470	335	335	155	400	335	.....	125	.....	335	195	195
Apr. 27	150	125	175	125	200	150	200	150	.....	200	250	200	175	125	.....	.....	.....	100	200	125	195	195
May 25	.....	125	140	100	160	120	160	120	.....	160	200	160	140	100	172	120	.....	.....	140	100	160	160
June 16	.....	100	140	100	160	120	160	80	.....	160	200	160	140	100	.....	.....	.....	100	.....	144	160	160
July 18	120	75	140	100	160	120	80	80	.....	160	200	160	140	100	172	120	.....	.....	140	100	160	144
Oct. 10	120	75	140	100	160	120	100	100	.....	80	200	160	140	86	172	120	.....	100	140	80	144	144
1888—Jan. 16	175	75	150	115	165	130	100	100	255	80	200	200	175	86	175	130	325	100	325	80	144	144
Mar. 10	175	125	150	115	165	130	115	115	130	130	200	200	150	100	175	130	325	100	165	115	165	165
July 5	175	110	150	115	165	130	115	115	130	130	200	200	150	100	175	130	325	100	165	115	165	165
Sept. 1	175	110	210	185	180	140	340	340	340	340	300	160	210	100	340	270	390	105	390	390	200	200
Sept. 20	175	110	210	115	180	140	340	340	340	340	300	160	.....	100	340	270	.....	105	390	390	200	200
1889—Jan. 1	210	110	210	115	200	140	340	135	340	340	300	160	210	100	340	270	390	105	390	390	200	200
Jan. 10	210	110	210	185	200	140	340	340	340	340	300	160	210	100	340	270	390	105	390	390	200	200
Mar. 1	210	130	210	185	200	140	340	340	340	340	300	160	210	100	340	270	390	105	390	390	200	200
Apr. 10	210	130	210	185	200	140	340	340	340	340	300	160	210	100	340	270	390	105	390	390	200	200
May 21	210	130	210	185	200	140	340	340	340	340	300	160	210	100	340	270	390	105	390	390	200	200
Aug. 20	210	130	210	185	200	140	340	340	340	340	300	160	210	100	340	270	390	105	390	390	200	200
Aug. 24	210	130	210	185	200	140	340	340	340	340	300	160	210	100	340	270	390	105	390	390	200	200

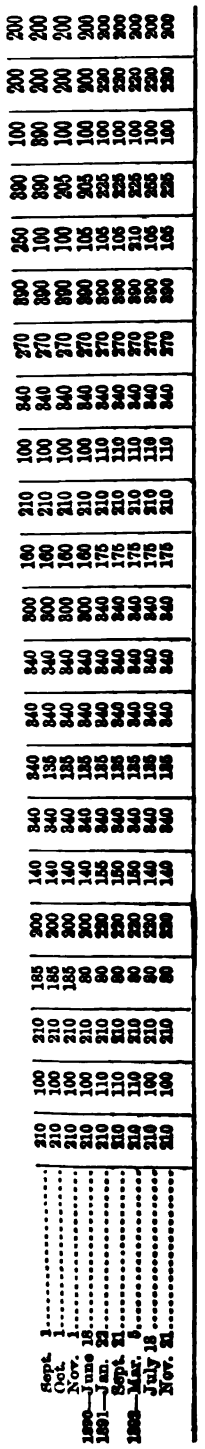

Sept. 1
Oct. 1
Nov. 1
June 15
1890
Jan. 21
1891
Sept. 21
Mar. 6
1893
July 15
Nov. 21

TABLE 126.—FREIGHT RATES, ALL RAIL, FROM SAN FRANCISCO AND LOS ANGELES, CAL., PORTLAND, OREGON, TACOMA AND SEATTLE, WASH., AND VANCOUVER, BRITISH COLUMBIA, TO CINCINNATI, OHIO.

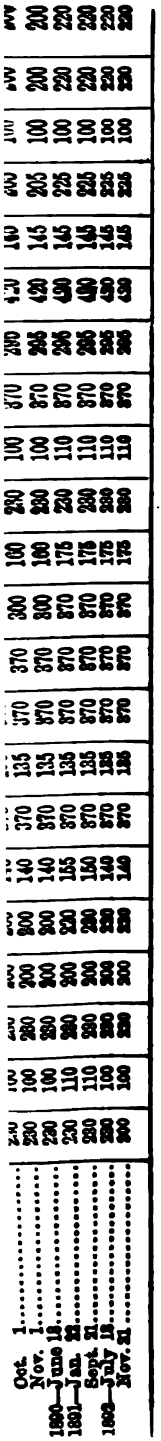
Date.	Rates (in cents per 100 pounds.)																					
	Canned goods.		Coffee, green.		Fruit, dried.		Hides, compressed.		Leather, in rolls.		Nuts.		Beans.		Raisins.		Vegetables.		Wine, in wood.		Hops.	
	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
1881—May 21	150	150	200	150	240	200	200	150	240	200	320	200	175	125	240	150	175	150	265	265	.....	.....
July 26	150	150	200	150	225	200	200	150	240	200	320	200	175	125	225	150	175	150	175	150	265	265
Oct. 6	150	150	200	150	239	150	200	150	239	200	345	200	175	150	239	150	175	150	175	150	265	265
1884—Aug. 25	150	125	200	150	239	200	200	150	239	200	345	200	175	150	239	150	175	150	175	150	265	265
1885—Feb. 9	150	125	200	150	239	200	200	150	239	200	345	200	175	125	239	150	175	150	175	150	265	265
Dec. 1	150	125	175	125	200	150	200	150	.....	200	255	200	175	125	220	150	.....	.....	175	150	255	.....
1886—Mar. 5	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
Apr. 26	84	70	98	70	113	84	113	84	.....	112	142½	112	98	70	123	84	98	84	44	44	44	44
Aug. 16	150	90	175	125	200	150	200	150	.....	200	255	200	175	75	230	150	98	84	87½	75	253	253
Nov. 24	150	90	175	125	200	150	200	150	.....	200	255	200	175	75	220	150	98	84	87½	75	253	115
1887—July 18	128	85	149	106	170	128	85	85	.....	170	213	170	149	106	183	128	.....	.....	149	106	.....	153
Oct. 10	128	85	149	106	170	128	106	106	.....	85	213	170	149	91	183	128	.....	106	149	80	168	163
1888—Sept. 20	128	85	149	122	170	128	106	106	.....	85	213	170	149	91	183	128	.....	106	149	80	168	163
1889—Jan. 1	215	110	215	123	200	140	345	135	345	215	300	160	215	100	345	275	395	140	395	395	200	200
Jan. 10	215	110	215	190	200	140	345	135	345	215	300	160	215	100	345	275	395	140	395	395	200	200
Mar. 1	215	120	215	190	200	140	345	135	345	215	300	160	215	100	345	275	395	140	395	395	200	200
May 23	215	100	215	190	200	120	345	135	345	215	300	160	215	100	345	275	395	140	395	395	200	200
Aug. 20	215	100	215	190	200	120	345	135	345	215	300	160	215	100	345	275	395	140	395	100	200	200
Aug. 24	215	100	215	190	200	120	345	135	345	215	300	160	215	100	345	275	395	140	395	100	200	200
Sept. 1	215	100	215	190	200	140	345	135	345	215	300	160	215	100	345	275	395	140	395	100	200	200
Oct. 1	215	100	215	190	200	140	345	135	345	215	300	160	215	100	345	275	395	140	395	100	200	200
Nov. 1	215	100	215	190	200	140	345	135	345	215	300	160	215	100	345	275	395	140	395	100	200	200
1890—June 13	215	100	215	190	200	140	345	135	345	215	300	160	215	100	345	275	395	140	395	100	200	200
1891—Jan. 22	215	110	215	190	220	155	345	135	345	215	345	175	215	110	345	275	395	140	225	100	220	200
Sept. 21	215	110	215	190	220	150	345	135	345	215	345	175	215	110	345	275	395	140	225	100	220	200
1892—July 18	215	100	215	190	220	140	345	135	345	215	345	175	215	110	345	275	395	140	225	100	220	200
Nov. 21	215	100	215	190	220	140	345	135	345	215	345	175	215	110	345	275	395	140	235	100	220	200

TABLE 127.—FREIGHT RATES, ALL RAIL, FROM SAN FRANCISCO AND LOS ANGELES, CAL., PORTLAND, OREGON, TACOMA AND SEATTLE, WASH., AND VANCOUVER, BRITISH COLUMBIA, TO PITTSBURG, PA.

Date.	Rates (in cents per 100 pounds).																					
	Canned goods.		Coffee, green.		Fruit, dried.		Hides, compressed.		Leather, in rolls.		Nuts.		Beans.		Raisins.		Vegetables.		Wine, in wood.		Hops.	
	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
1881—May 21	150	150	200	150	250	200	200	150	250	200	345	200	175	125	250	150	.....	.....	175	150	280	280
July 25	150	150	200	150	250	200	200	150	250	200	345	200	175	125	240	150	.....	.....	175	150	280	280
Oct. 6	150	150	200	150	250	200	200	150	250	200	362	200	175	150	250	150	.....	.....	175	150	271	271
1884—Aug. 25	150	125	200	150	250	200	200	150	250	200	362	200	175	150	250	150	.....	.....	.....	.....	.....	.....
1885—Dec. 1	150	125	175	125	200	150	200	150	.....	200	270	200	175	125	225	150	.....	.....	175	150	270	270
1886—Apr. 26	89	74½	104	74½	104	89	119	89	.....	119	160	119	104	74½	133½	89	104	89	.....	.....	.....	.....
Aug. 16	150	90	175	125	200	150	200	150	.....	200	270	200	175	67	225	150	104	89	87½	75	270	270
Sept. 27	150	90	175	125	200	150	200	150	.....	200	270	200	175	62½	225	150	104	89	87½	75	270	270
Nov. 24	150	90	175	125	200	150	200	150	.....	200	270	200	175	62½	225	150	104	89	87½	75	270	125
1887—Feb. 2	150	90	175	125	200	150	200	150	.....	200	270	200	175	57½	225	150	104	89	87½	75	270	125
July 18	135	90	158	113	180	135	90	90	.....	180	225	180	158	113	194	135	.....	.....	158	113	.....	162
Oct. 10	135	90	158	113	180	135	113	113	.....	90	225	180	158	96	194	135	.....	113	158	85	162	.....
1888—Jan. 16	198	90	160	120	180	140	113	113	288	90	225	225	198	96	198	140	360	113	360	90	162	162
Mar. 10	198	125	160	120	180	140	120	120	140	140	225	225	160	105	198	140	360	113	180	120	180	.....
July 5	198	110	160	120	180	140	120	120	140	140	225	225.	160	105	198	140	360	113	180	120	200	200
Sept. 1	220	110	220	195	180	140	350	350	350	350	300	160	220	100	350	280	400	140	400	400	350	350
1889—Jan. 1	220	110	220	195	200	140	350	135	350	350	300	160	220	100	350	280	400	140	400	400	350	200
Jan. 10	220	110	220	195	200	140	350	350	350	350	300	160	220	100	350	280	400	140	400	400	350	200
Mar. 1	220	120	220	195	200	140	350	350	350	350	300	160	220	100	350	280	400	140	400	400	350	200
May 23	220	100	220	195	200	120	350	350	350	350	300	160	220	100	350	280	400	140	400	400	350	200
Aug. 20	220	100	220	195	200	120	350	350	350	350	300	160	220	100	350	280	400	140	400	100	350	200
Aug. 24	220	100	220	195	200	120	350	350	350	350	300	160	220	100	350	280	400	140	400	100	350	200
Sept. 1	220	100	220	195	200	140	350	350	350	350	300	160	220	100	350	280	400	140	400	100	350	200
Oct. 1	220	100	220	195	200	140	350	135	250	350	300	160	220	100	350	280	400	100	400	400	200	200
Nov. 1	220	100	220	195	200	140	350	135	350	350	300	160	220	100	350	280	400	100	205	100	200	200
1890—June 18	220	100	220	195	200	140	350	135	350	220	300	160	220	100	350	280	400	140	205	100	200	200
1891—Jan. 22	220	110	220	195	220	155	350	135	350	220	350	175	220	110	350	280	400	140	225	100	220	200
Sept. 21	220	110	220	195	220	150	350	135	350	220	350	175	220	110	350	280	400	140	225	100	220	200
1892—July 18	220	100	220	195	220	140	350	135	350	220	350	175	220	110	350	280	400	140	225	100	220	200
Nov. 21	220	100	220	195	220	140	350	135	350	220	350	175	220	110	350	280	400	140	225	100	220	200

TABLE 128.—FREIGHT RATES, ALL RAIL, FROM SAN FRANCISCO AND LOS ANGELES, CAL., PORTLAND, OREGON, TACOMA AND SEATTLE, WASH., AND VANCOUVER, BRITISH COLUMBIA, TO NEW YORK, N. Y.

Date.	Rates (in cents, per 100 pounds).																			
	Canned goods.		Coffee, green.		Fruit, dried.		Hides, compressed.		Leather, in rolls.		Nuts.		Beans.		Raisins.		Vegetables.		Wine in, wood.		Hops.	
	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.	Less than carloads.	Carloads.
1876—Feb. 10	420	420	.....	.....	420	420	550	550	550	550	550	550	.....	.....	420	420	.....	.....	550	550	420	420
1877—July 16	420	420	.....	.....	420	420	550	550	550	550	550	550	.....	.....	420	420	.....	320	550	550	420	420
1878—June 15	420	420	.....	.....	420	420	550	550	550	550	550	550	.....	.....	420	420	.....	257	550	550	420	420
1881—May 21	150	150	200	150	250	200	200	150	250	200	400	200	175	125	250	150	.....	257	175	150	300	300
July 25	150	150	200	150	250	200	200	150	250	200	400	200	175	125	250	150	.....	.....	175	150	300	300
Oct. 6	150	150	200	150	250	150	200	150	250	200	400	200	175	150	250	150	.....	150	175	150	300	300
1884—Aug. 25	150	125	200	150	250	200	200	150	250	200	400	200	175	150	250	150	.....	150	175	150	300	300
1885—Feb. 9	150	125	200	150	250	200	200	150	250	200	400	200	175	125	250	150	.....	150	175	150	300	300
Mar. 15	150	125	200	150	250	200	200	150	250	200	400	200	175	125	250	150	.....	200	175	150	300	300
Dec. 1	150	125	175	125	200	150	200	150	250	200	300	200	175	125	250	150	.....	.....	175	150	300	300
1886—Feb. 28	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Apr. 26	96½	81½	112½	81	128½	96½	128	90½	.....	128	191	128	112½	81	159½	96½	112½	81	50	50	50	50
Aug. 16	150	127	175	125	200	150	200	150	.....	200	300	200	175	97	250	150	.....	.....	87½	75	300	300
Nov. 24	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	135
1887—Apr. 5	.....	180	305	260	380	295	.....	445	425	425	.....	360	.....	180	435	435	.....	160	.....	370	245	245
Apr. 27	.....	155	.....	145	.....	170	.....	200	.....	205	.....	230	.....	150	435	435	.....	136	.....	160	235	235
May 25	.....	125	175	125	200	150	200	150	.....	200	250	200	175	125	215	150	.....	.....	175	125	200	200
June 16	.....	125	175	125	200	150	200	100	.....	200	250	200	175	125	.....	.....	.....	.....	.....	180	.....	.....
July 18	160	100	175	125	200	150	100	100	.....	200	250	200	175	125	215	150	.....	.....	175	125	.....	180
Oct. 10	160	100	175	125	200	150	125	125	.....	100	250	200	175	107	215	150	.....	125	175	90	180	180
1888—Jan. 16	160	100	175	125	200	150	125	125	220	100	250	250	220	107	220	150	400	125	400	100	180	180
Mar. 10	220	125	175	125	200	150	125	125	150	150	250	250	175	110	220	150	400	125	200	125	200	200
July 5	220	110	175	125	200	150	125	125	150	150	250	250	175	110	220	150	400	125	200	125	200	200
Sept 1	160	110	.....	.....	180	140	140	140	200	200	300	200	180	100	180	140	300	300	180	100	200	200
Sept. 26	160	110	.....	.....	180	140	180	100	200	200	300	200	180	100	180	140	300	300	180	100	200	200
1889—Jan. 1	220	110	220	200	200	140	370	195	370	370	300	160	230	100	370	295	420	145	420	420	200	200
Jan. 10	220	110	210	200	200	140	370	370	370	370	300	160	230	100	370	295	420	145	420	420	200	200
Mar. 1	220	190	230	200	200	140	370	370	370	370	300	160	230	100	370	295	420	145	420	420	200	200
May 23	230	100	230	200	200	120	370	370	370	370	300	160	230	100	370	295	420	145	420	420	200	200
Aug. 20	230	100	210	200	200	120	370	370	370	370	300	160	230	100	370	295	420	145	420	100	200	200
Aug. 24	210	100	230	200	200	120	370	370	370	370	300	160	230	100	370	295	420	145	420	100	200	200
Sept. 1	230	100	230	200	200	140	370	370	370	370	300	160	230	100	370	295	420	145	420	100	200	200


Oct. 1
Nov. 1
1890—June 15
1891—Jan. 21
Sept. 21
1893—July 15
Nov. 21

MISCELLANEOUS DATA—OCEAN RATES—MILEAGE RATES—TONNAGE MOVEMENT.

OCEAN RATES FROM NEW YORK TO LIVERPOOL, ENGLAND.

Data have been collected showing the rates charged on wheat and provisions from New York to Liverpool, England, via steamers, and the same are below given, showing the changes as reported from 1866 up to the present time.

TABLE 129.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF WHEAT AND PROVISIONS FROM NEW YORK TO LIVERPOOL VIA STEAMERS FROM JANUARY 1, 1866.

Date.	Wheat per bushel.	Provisions per ton.
	Cents.	*Dolls.*
1866—Jan. 3	9	
Jan. 17	9	
Feb. 3	12	
Feb. 17	13	
Mar. 3	11	
Mar. 17	11½	
Apr. 4	8	
Apr. 18	4	
ay 2	6½	
May 16	7½	
June 2	7½	
June 16	8	
July 4	10½	
July 18	9½	
Aug. 1	9	
Aug. 15	10	
Sept. 1	9½	
Sept. 15	10½	
Oct. 3	10½	
Oct. 17	10	
Nov. 3	9	
Nov. 14	8	
Dec. 1	12	
Dec. 15	11	
1867—Jan. 5	5½	
Jan. 16	8	
Feb. 2	13	
Feb. 16	13	
Mar. 2	13	
Mar. 16	10	
Apr. 3	6½	
Apr. 17	7	
May 1	8	
May 15	6	
June 1	5	
June 15	8	
July 3	8	
July 17	8	
Aug. 3	7	
Aug. 17	7	
Sept. 4	4	
Sept. 18	11	
Oct. 2	12	
Oct. 16	22	
Nov. 2	19	
Nov. 16	17	
Dec. 4	18	
Dec. 18	12	
1868—Jan. 1	11½	
Jan. 15	15	
1868—Feb. 1	21	
Feb. 15	21	
Mar. 4	20	
Mar. 14	16	
Apr. 1	16	
Apr. 15	13	
May 2	13	
May 16	11½	
June 3	11	
June 17	9	
July 1	11	
July 15	12	
Aug. 1	13	
Aug. 15	9	
Sept. 2	9	
Sept. 16	8	
Oct. 3	16	
Oct. 17	16	
Nov. 4	15	
Nov. 18	16	
Dec. 2	13	
Dec. 16	12½	
1869—Jan. 2	10	
Jan. 16	16½	
Feb. 3	15	
Feb. 17	10½	
Mar. 3	8½	
Mar. 17	7	
Apr. 3	5	
Apr. 17	4	
May 1	2	
May 15	7	
June 2	15	
June 16	13	
July 3	16	
July 18	18	
Aug. 4	7½	
Aug. 18	21	
Sept. 1	18½	
Sept. 15	21	
Oct. 2	20	
Oct. 16	14½	
Nov. 3	17	
Nov. 17	15½	
Dec. 1	10	
Dec. 15	10	
1870—Jan. 5	8	
Jan. 15	10	
Feb. 2	8½	
Feb. 16	6	
1870—Mar. 2	4	
Mar. 16	9	
Apr. 2	6	
Apr. 16	6½	
May 4	8	
May 18	8	
June 1	8½	
June 15	11	
July 2	8	
July 16	14	
Aug. 3	24	
Aug. 17	21	
Sept. 3	14	
Sept. 17	17	
Oct. 1	12	
Oct. 15	17½	
Nov. 2	20	
Nov. 16	19	
Dec. 3	18½	
Dec. 17	15	
1871—Jan. 4	16	
Jan. 18	12½	
Feb. 1	14	
Feb. 15	15	
Mar. 1	14	
Mar. 15	12	
Apr. 1	12½	
Apr. 15	16½	
May 3	11	
May 17	16½	
June 3	17	
June 17	12	
July 1	17½	
July 15	16	
Aug. 2	16½	
Aug. 16	17½	
Sept. 2	21	
Sept. 16	24	
Oct. 4	22	
Oct. 18	22	
Nov. 1	19	
Nov. 15	16	
Dec. 2	15	
Dec. 16	15	
1872—Jan. 3	13	
Jan. 17	15	
Feb. 3	13	
Feb. 17	12	
Mar. 2	12½	
Mar. 16	12	

TABLE 129.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF WHEAT AND PROVISIONS FROM NEW YORK TO LIVERPOOL, ETC.—Continued.

Date.	Wheat per bushel.	Provisions per ton.
	Cents.	*Dolls.*
1872—Apr. 3 ..	8	.....
Apr. 17 ..	8½	.....
May 1 ..	8	.....
May 15 ..	9½	.....
June 1 ..	14	.....
June 15 ..	17	.....
July 3 ..	15½	.....
July 17 ..	18½	.....
Aug. 3 ..	16	.....
Aug. 17 ..	17½	.....
Sept. 4 ..	20	.....
Sept. 18 ..	22	.....
Oct. 2 ..	24	.....
Oct. 16 ..	20	.....
Nov. 2 ..	18	.....
Nov. 16 ..	18½	.....
Dec. 4 ..	18½	.....
Dec. 18 ..	16	.....
1873—Jan. 1 ..	17	.....
Jan. 15 ..	15½	.....
Feb. 1 ..	14½	.....
Feb. 15 ..	14	.....
Mar. 1 ..	14	.....
Mar. 15 ..	14	.....
Apr. 2 ..	16	.....
Apr. 16 ..	17	.....
May 3 ..	11	.....
May 17 ..	17	.....
June 4 ..	22	.....
June 18 ..	24	.....
July 2 ..	24	.....
July 16 ..	25	.....
Aug. 2 ..	27	.....
Aug. 16 ..	25	.....
Sept. 3 ..	26	.....
Sept. 17 ..	27	.....
Oct. 1 ..	27	.....
Oct. 15 ..	26	.....
Nov. 1 ..	27	.....
Nov. 15 ..	28	.....
Dec. 3 ..	24½	.....
Dec. 17 ..	24½	.....
1875—Jan. 5 ..	23	$12.00
Jan. 8 ..	24	12.00
Jan. 12 ..	21½	12.00
Jan. 15 ..	22	12.00
Jan. 19 ..	21	12.00
Jan. 22 ..	21	10.80
Jan. 26 ..	21	9.60
Jan. 29 ..	22	9.60
Feb. 2 ..	21½	9.60
Feb. 5 ..	21½	9.60
Feb. 9 ..	22	9.60
Feb. 12 ..	21	9.60
Feb. 16 ..	15	7.20
Feb. 19 ..	16	7.20
Feb. 23 ..	17½	7.20
Feb. 26 ..	16	7.20
Mar. 2 ..	14	7.20
Mar. 5 ..	15½	7.20
Mar. 9 ..	15½	7.20
Mar. 12 ..	14	7.20
Mar. 16 ..	13½	6.60
Mar. 19 ..	15	7.20
Mar. 23 ..	15	7.20
Mar. 26 ..	14½	7.20
Mar. 30 ..	14	7.20
Apr. 2 ..	14	6.60
Apr. 6 ..	12	6.00
Apr. 9 ..	12	6.00
Apr. 13 ..	12	6.00
Apr. 16 ..	12	6.00
Apr. 20 ..	12	6.00
Apr. 23 ..	10	6.00
Apr. 27 ..	12	6.00
Apr. 30 ..	12	6.00
May 4 ..	12	6.00

Date.	Wheat per bushel.	Provisions per ton.
	Cents.	*Dolls.*
1875—May 7 ..	12	6.00
May 11 ..	12	6.00
May 14 ..	12½	6.00
May 18 ..	12	6.60
May 21 ..	13	6.60
May 25 ..	13	8.40
May 28 ..	13	8.40
June 1 ..	13	8.40
June 4 ..	16	9.60
June 8 ..	16	9.60
June 11 ..	17	9.60
June 15 ..	15	8.40
June 18 ..	15	8.40
June 22 ..	15	8.40
June 25 ..	16	8.40
June 29 ..	16	8.40
1876—Jan. 7 ..	18	9.60
Jan. 14 ..	17½	9.00
Jan. 21 ..	16	7.80
Jan. 28 ..	16	7.20
Feb. 4 ..	16½	8.40
Feb. 11 ..	16	7.80
Feb. 18 ..	16	7.20
Feb. 25 ..	15	7.20
Mar. 3 ..	15	7.20
Mar. 10 ..	15	7.20
Mar. 17 ..	16	7.20
Mar. 24 ..	17	7.20
Mar. 31 ..	15	7.20
Apr. 7 ..	10	6.00
Apr. 14 ..	8	6.00
Apr. 21 ..	9	4.80
Apr. 28 ..	12	6.00
May 5 ..	16	7.20
May 12 ..	17	8.40
May 19 ..	17	9.60
May 26 ..	16	9.60
June 2 ..	19	9.60
June 9 ..	18	9.60
June 20 ..	17	9.60
June 23 ..	16½	9.60
June 30 ..	14	9.60
July 7 ..	17	9.60
July 14 ..	19	9.60
July 21 ..	20	9.60
July 28 ..	18½	9.60
Aug. 4 ..	16	9.60
Aug. 11 ..	17	9.60
Aug. 18 ..	14	8.40
Aug. 25 ..	15	8.40
Sept. 1 ..	16	8.40
Sept. 8 ..	17	9.00
Sept. 15 ..	17	8.40
Sept. 22 ..	15½	7.80
Sept. 29 ..	16	7.20
Oct. 6 ..	17½	7.20
Oct. 13 ..	16	7.80
Oct. 20 ..	18	8.40
Oct. 27 ..	15	8.40
Nov. 3 ..	15½	8.40
Nov. 10 ..	15	8.40
Nov. 17 ..	16	10.80
Nov. 24 ..	18	11.40
Dec. 1 ..	18	11.40
Dec. 8 ..	18	11.28
Dec. 15 ..	17	10.80
Dec. 23 ..	16	10.80
Dec. 29 ..	17	10.80
1877—Jan. 5 ..	14	9.60
Jan. 12 ..	14	9.60
Jan. 19 ..	13	9.60
Jan. 26 ..	13	8.40
Feb. 2 ..	9½	7.20
Feb. 9 ..	11	7.20
Feb. 16 ..	10	7.20
Feb. 23 ..	9½	6.60
Mar. 2 ..	9	6.00

Date.	Wheat per bushel.	Provisions per ton.
	Cents.	*Dolls.*
1877—Mar. 9 ..	11	6.00
Mar. 16 ..	9	4.80
Mar. 23 ..	8	4.20
Mar. 30 ..	8	3.60
Apr. 6 ..	8	3.60
Apr. 13 ..	12	4.80
Apr. 20 ..	11	4.80
Apr. 27 ..	16	9.60
May 4 ..	12	9.60
May 11 ..	11	9.60
May 18 ..	12	9.60
May 25 ..	14	9.60
June 1 ..	13½	8.40
June 8 ..	11	9.60
June 15 ..	8	6.00
June 22 ..	8½	6.00
June 29 ..	10	6.00
July 6 ..	9	4.80
July 13 ..	10	4.80
July 20 ..	12	4.80
July 27 ..	11	6.00
Aug. 3 ..	12	6.00
Aug. 10 ..	17	9.60
Aug. 17 ..	16	9.60
Aug. 24 ..	22	9.60
Aug. 31 ..	23	9.60
Sept. 7 ..	20	10.80
Sept. 14 ..	21	9.60
Sept. 21 ..	18	8.40
Sept. 28 ..	18	8.40
Oct. 5 ..	17	8.40
Oct. 12 ..	18½	8.40
Oct. 19 ..	20	8.40
Oct. 26 ..	20½	8.94
Nov. 2 ..	18½	8.40
Nov. 9 ..	17	7.68
Nov. 16 ..	16	7.68
Nov. 23 ..	16½	7.80
Nov. 30 ..	16	7.20
Dec. 7 ..	15	7.20
Dec. 14 ..	16	8.40
Dec. 21 ..	17	9.60
Dec. 28 ..	19	9.60
1878—Jan. 4 ..	19	9.60
Jan. 11 ..	20	9.60
Jan. 18 ..	19	9.60
Jan. 25 ..	19	9.60
Feb. 1 ..	19	9.60
Feb. 8 ..	19	9.60
Feb. 15 ..	20	9.60
Feb. 22 ..	18	9.60
Mar. 1 ..	16	9.00
Mar. 8 ..	15	7.80
Mar. 15 ..	12½	6.60
Mar. 22 ..	12½	6.00
Mar. 29 ..	14	6.00
Apr. 5 ..	16½	7.20
Apr. 12 ..	16	7.20
Apr. 22 ..	14	6.60
Apr. 26 ..	15	6.60
May 3 ..	17	6.60
May 10 ..	16	7.20
May 17 ..	17	7.20
May 24 ..	15½	7.20
May 31 ..	16	7.20
June 7 ..	16½	7.20
June 14 ..	16½	7.20
June 21 ..	16½	7.20
June 28 ..	15½	7.80
July 9 ..	14	7.80
July 12 ..	14	7.20
July 19 ..	12½	7.20
July 26 ..	12	7.20
Aug. 2 ..	15½	7.20
Aug. 9 ..	16	7.20
Aug. 16 ..	16	7.20
Aug. 23 ..	15	7.20

TABLE 129.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF WHEAT AND PROVISIONS FROM NEW YORK TO LIVERPOOL, ETC.—Continued.

Date.	Wheat per bushel.	Provisions per ton.
	Cents.	*Dolls.*
1878—Aug. 30	14	7.20
Sept. 6	12½	7.20
Sept. 13	11	6.60
Sept. 20	11	6.00
Sept. 27	12½	6.60
Oct. 4	13	8.40
Oct. 11	13	9.00
Oct. 18	15	9.00
Oct. 25	15	9.00
Nov. 1	16	9.00
Nov. 8	15½	9.00
Nov. 15	15	9.00
Nov. 22	15½	9.60
Nov. 29	15½	9.60
Dec. 6	14½	8.40
Dec. 13	12	7.20
Dec. 20	11	6.00
Dec. 27	11½	6.00
1879—Jan. 3	10½	.....
Jan. 10	12	.....
Jan. 17	11½	.....
Jan. 25	12½	.....
Jan. 31	11½	.....
Feb. 7	11½	.....
Feb. 14	12	.....
Feb. 21	12	.....
Feb. 28	12	.....
Mar. 7	12½	.....
Mar. 14	13	.....
Mar. 25	12	.....
Mar. 28	11½	.....
Apr. 4	11½	.....
Apr. 15	12	.....
Apr. 18	12	.....
Apr. 25	12½	.....
May 2	11	.....
May 9	10½	.....
May 16	10½	.....
May 23	10½	.....
May 27	10½	.....
June 6	10½	.....
June 13	10	.....
June 20	9½	.....
June 27	8½	.....
July 8	8	.....
July 11	10	.....
July 18	13	.....
July 25	15	.....
Aug. 1	15½	.....
Aug. 8	17	.....
Aug. 15	15	.....
Aug. 22	15½	.....
Aug. 29	15½	.....
Sept. 5	14	.....
Sept. 12	13	.....
Sept. 19	15½	.....
Sept. 26	15½	.....
Oct. 3	18	.....
Oct. 10	18	.....
Oct. 17	17	.....
Oct. 24	15½	.....
Oct. 30	12½	.....
Nov. 7	16	.....
Nov. 14	13	.....
Nov. 21	12½	.....
Nov. 28	12½	.....
Dec. 5	10½	.....
Dec. 12	8	.....
Dec. 19	8	.....
Dec. 30	6	.....
1880—Jan. 6	6	3.00
Jan. 16	8	4.80
Jan. 23	8	4.80
Jan. 30	6	4.80
Feb. 6	5½	4.20
Feb. 13	6	4.20
Feb. 26	5½	4.20

Date.	Wheat per bushel.	Provisions per ton.
	Cents.	*Dolls.*
1880—Feb. 27	11	7.20½
Mar. 5	10	6.60
Mar. 12	10½	7.20
Mar. 19	12½	7.20
Mar. 30	15	7.20
Apr. 2	15	7.20
Apr. 9	13½	7.20
Apr. 16	13	7.20
Apr. 23	9	7.20
Apr. 30	9	6.00
May 7	9	6.00
May 14	9	6.00
May 21	10	6.00
May 28	8	6.00
June 4	8	6.00
June 11	9½	6.00
June 18	11	6.00
June 25	12	6.00
July 2	12	6.00
July 9	13	6.00
July 16	13	6.60
July 23	16½	6.60
July 30	18½	7.20
Aug. 6	17	8.40
Aug. 13	14½	8.40
Aug. 20	13½	7.20
Aug. 27	14	7.20
Sept. 3	12½	7.20
Sept. 10	11	7.20
Sept. 17	11	7.20
Sept. 24	11	7.20
Oct. 1	11	7.20
Oct. 8	13	7.20
Oct. 15	12½	7.20
Oct. 22	12	7.20
Oct. 29	13	7.20
Nov. 5	14½	8.40
Nov. 12	15	9.60
Nov. 19	15½	10.80
Nov. 26	15½	10.20
Dec. 3	15	10.20
Dec. 10	15	9.60
Dec. 17	15	8.40
Dec. 29	13½	8.40
1881—Jan. 7	13	7.20
Jan. 14	14½	7.20
Jan. 21	14	7.68
Jan. 28	12	7.20
Feb. 4	10½	7.20
Feb. 11	10½	7.20
Feb. 18	11	7.80
Feb. 25	11	7.80
Mar. 4	.....	7.80
Mar. 11	10	7.20
Mar. 18	9	6.00
Mar. 25	9	5.40
Apr. 1	9	4.80
Apr. 8	9½	4.80
Apr. 19	8½	4.80
Apr. 22	8	4.80
Apr. 29	5½	4.20
May 6	4	3.60
May 13	4	3.00
May 20	7	3.00
May 27	5	2.40
June 3	6½	2.40
June 10	7	2.40
June 17	7	3.00
June 24	6	3.60
July 5	7½	3.00
July 15	9	3.60
July 22	9½	3.60
July 29	11	5.40
Aug. 5	10½	5.40
Aug. 12	13	5.40
Aug. 19	9	5.40
Aug. 26	9	5.40

Date.	Wheat per bushel.	Provisions per ton.
	Cents.	*Dolls.*
1881—Sept. 2	8½	5.40
Sept. 9	6	4.80
Sept. 16	7	4.80
Sept. 23	8½	4.80
Sept. 30	6	3.60
Oct. 7	6	3.60
Oct. 14	6	3.60
Oct. 21	5	3.60
Oct. 28	6	3.60
Nov. 4	7½	3.60
Nov. 11	9	3.60
Nov. 18	8½	3.60
Nov. 25	8	3.60
Dec. 2	7	3.60
Dec. 9	6½	3.60
Dec. 16	6	3.60
Dec. 27	5	3.60
Dec. 30	5½	3.60
1882—Jan. 6	6	4.20
Jan. 13	6½	4.80
Jan. 20	7½	4.80
Jan. 27	7½	5.40
Feb. 3	7½	5.40
Feb. 10	7	5.40
Feb. 17	8½	6.00
Feb. 24	8½	6.00
Mar. 3	7	6.00
Mar. 10	7	6.00
Mar. 17	8½	6.00
Mar. 24	4	2.40
Mar. 31	4	2.40
Apr. 11	1	1.80
Apr. 14	½	1.80
Apr. 21	2	1.80
Apr. 28	2	1.80
May 5	2	1.80
May 12	½	1.80
May 19	1	1.80
May 26	.....	1.80
June 2	.....	.60
June 9	4	1.80
June 16	7	3.00
June 23	8	4.80
June 30	6	4.80
July 7	8	4.80
July 14	8	3.00
July 21	10	4.80
July 28	12	6.00
Aug. 4	10½	4.80
Aug. 11	8	4.80
Aug. 18	9	4.80
Aug. 25	9	4.80
Sept. 1	10½	4.80
Sept. 8	12	6.00
Sept. 15	10	4.80
Sept. 22	8	4.80
Sept. 29	7	4.80
Oct. 6	9	6.00
Oct. 13	9	7.20
Oct. 20	7½	7.20
Oct. 27	7½	6.00
Nov. 3	10	6.00
Nov. 10	10	6.00
Nov. 17	10½	6.00
Nov. 24	12	6.00
Dec. 1	14	7.20
Dec. 8	17	9.00
Dec. 15	12½	9.00
Dec. 22	13	9.00
Dec. 29	14	9.00
1883—Jan. 5	15	7.20
Jan. 12	15	6.00
Jan. 19	14	6.00
Jan. 26	12	6.00
Feb. 2	14	7.20
Feb 9	14½	6.00
Feb. 16	13½	6.00

TABLE 129.—FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF WHEAT AND PROVISIONS FROM NEW YORK TO LIVERPOOL, ETC.—Continued.

Date.	Wheat per bushel.	Provisions per ton.
	Cents.	*Dolls.*
1882—Feb. 23 ..	12	7.74
Mar. 2 ..	11	5.40
Mar. 9 ..	9	5.40
Mar. 16 ..	8	4.80
Mar. 20 ..	6½	3.60
Mar. 27 ..	4½	2.70
Apr. 6 ..	5	3.60
Apr. 13 ..	6½	4.80
Apr. 20 ..	5½	3.72
Apr. 27 ..	2½	2.40
May 4 ..	5	3.40
May 11 ..	7	3.00
May 18 ..	6	3.00
May 25 ..	6½	3.00
June 1 ..	7	3.00
June 8 ..	5	3.00
June 15 ..	4	3.00
June 22 ..	6	3.00
June 29 ..	6	3.00
July 6 ..	7	3.00
July 13 ..	7½	3.00
July 20 ..	10	3.60
July 27 ..	10	3.60
Aug. 3 ..	9	3.60
Aug. 10 ..	8	4.20
Aug. 17 ..	7½	4.20
Aug. 24 ..	5½	3.60
Aug. 31 ..	5½	3.60
Sept. 7 ..	7½	3.00
Sept. 14 ..	7	3.00
Sept. 21 ..	7½	3.00
Sept. 28 ..	8	4.20
Oct. 5 ..	8½	3.60
Oct. 12 ..	9	4.80
Oct. 19 ..	10	6.00
Oct. 26 ..	10	6.00
Nov. 2 ..	10	6.60
Nov. 10 ..	8	6.60
Nov. 17 ..	9½	5.28
Nov. 24 ..	9	6.00
Dec. 1 ..	8	6.00
Dec. 8 ..	8	5.40
Dec. 15 ..	6	4.20
Dec. 22 ..	6	4.20
Dec. 29 ..	3	2.00
1884—Jan. 4 ..	4	4.80
Jan. 11 ..	7½	4.80
Jan. 18 ..	6	6.00
Jan. 25 ..	8	6.00
Feb. 1 ..	6½	4.80
Feb. 8 ..	6	4.80
Feb. 15 ..	5	4.80
Feb. 22 ..	5	4.80
Feb. 29 ..	3½	3.00
Mar. 7 ..	4	3.00
Mar. 14 ..	2	3.00
Mar. 21 ..	2	3.00
Mar. 28 ..	4	2.40
Apr. 4 ..	4	3.00
Apr. 15 ..	4	2.40
Apr. 23 ..	4½	2.40
Apr. 29 ..	4½	2.40
May 9 ..	2	2.10
May 16 ..	2	2.40
1884—May 23 ..	5½	3.60
May 30 ..	5½	4.20
June 6 ..	6	4.20
June 13 ..	6	4.20
June 20 ..	6½	4.20
June 27 ..	6½	3.60
July 4 ..	6½	4.20
July 11 ..	9½	4.80
July 18 ..	10	4.80
July 25 ..	9½	5.40
Aug. 1 ..	10	5.40
Aug. 8 ..	11	6.00
Aug. 15 ..	9	6.00
Aug. 22 ..	8	6.00
Aug. 29 ..	9	4.80
Sept. 5 ..	5	3.60
Sept. 12 ..	5	3.60
Sept. 19 ..	6	3.60
Sept. 26 ..	7	4.20
Oct. 3 ..	7½	6.00
Oct. 10 ..	7	6.00
Oct. 17 ..	7	6.00
Oct. 24 ..	7	6.00
Oct. 31 ..	7½	6.00
Nov. 7 ..	10	6.60
Nov. 14 ..	12	8.40
Nov. 21 ..	12	7.20
Nov. 28 ..	12	7.20
Dec. 5 ..	12	8.40
Dec. 12 ..	12	7.20
Dec. 19 ..	12	7.20
Dec. 26 ..	13	6.60
1887—Jan.	9	5.47½
Feb.	7½	5.10
Mar.	3½	3.12
Apr.	2	2.25
May.	4	2.10
June	4	2.10
July	6	3.60
Aug.	4½	3.97½
Sept.	2½	2.66½
Oct.	5½	3.60
Nov	6½	4.50
Dec	5½	4.26
1888—Jan.	4½	3.52
Feb	2½	2.85
Mar	1½	1.85
Apr	½	1.65
May.	1½	1.68
June	2½	2.14
July.	3½	2.34
Aug	7	3.41
Sept	9½	6.00
Oct.	7½	6.00
Nov	11	6.96
Dec	10	7.08
1889—Jan.	9½	3.96
Feb.	9½	3.15
Mar	5½	2.55
Apr	4½	2.40
May	6½	2.22
June	5½	2.25
July.	6½	2.58
Aug	4½	3.75
1889—Sept.	9½	3.48
Oct.	9½	3.80
Nov	9½	3.82½
Dec	9½	4.05
1890—Jan.	11½	7.50
Feb.	10½	7.35
Mar	8	5.77½
Apr	4	4.47
May.	4½	3.18½
June.	3½	3.00
July	4½	3.30
Aug	2	2.70
Sept	1½	2.40
Oct.	½	1.86½
Nov.	4½	3.30
Dec	5	4.35
1891—Jan	7½	4.87
Feb.	4½	4.65
Mar	3	3.41½
Apr	3	3.00
May.	3½	2.24½
June	4	2.85
July	4	3.30
Aug	6	3.30
Sept.	8½	4.42½
Oct	11½	6.18
Nov	11½	6.90
Dec.	8½	6.36
1892—Jan.	9	.....
Feb.	6½	.....
Mar	7½	.....
Apr	3½	.....
May.	4½	.....
June	4	.....
July	5½	.....
Aug	4½	.....
Sept.	4	.....
Oct.	6	.....
Nov	4½	.....

NOTE.—For years 1887 to 1892, figures shown are monthly averages.

AVERAGE FREIGHT RATES PER TON PER MILE.

No presentation of the tendency toward lower charges for freight transportation by railways is at once so comprehensive, accurate, and readily understood as a statement of the average charges per ton per mile prevailing during successive periods. Such a statement has the advantage over all others that no portion of traffic is excluded, but that all business, whether through or local, of relatively great or inconsiderable importance, is represented in the final average.

Table No. 130 following is arranged to show the average freight rates per ton per mile charged by a number of important railways which have been selected with a view to the presentation of fairly representative data covering each of the physical divisions of the railway system. It has been found practicable to include in this table the average rates for several roads from 1852; many others are given for periods covering their entire existence, and it may be said that the table as here presented is much more complete than any heretofore published.

The full significance of these data cannot be appreciated by a merely superficial examination; they should be considered in connection with tables Nos. 131, 132, and 133, showing, respectively, the number of millions of tons of freight carried 1 mile, the number of tons carried regardless of distance, and the gross freight earnings of the same railways. Selecting as an individual example the Fitchburg Railroad, it is observed that its gross revenue from freight in 1852 was 3.12 cents for each ton carried 1 mile, or more than three times the amount received in 1892 for the same service, which was 0.925 cent.

The earliest years for which it is possible to present statistics of the amount of traffic for this road is 1860. During that year the average rate per ton per mile was 4.10 cents, the aggregate transportation of freight was equivalent to the carriage of 9,000,000 tons 1 mile, and the actual number of tons carried was 395,003. During 1892 the tonnage carried was 4,570,377, and the ton mileage 496,000,000. The average distance carried (and it should be remembered that this is a most important factor in the tendency toward cheaper transportation) increased from 22.7 miles in 1860 to 108.5 miles in 1892.

Had the tonnage of 1892 been carried at the rates of 1860, the gross freight earnings would have amounted to more than twenty-one millions, or over sixteen millions more than was actually received. Conversely, had the rates of 1892 been charged upon the business of 1860, the gross freight revenue, which was $369,000, would have been only about $84,000, a sum probably wholly insufficient to have paid the expenses of operation.

Such speculation, however interesting, can have little practical value. The intimate connection between the rates charged and the quantity of traffic is so thoroughly understood at the present time as to require little or no comment. That an increase in traffic from 395,000 to 4,570,377 tons carried, and from 9,000,000 to 496,000,000 ton miles, could not have taken place without a substantial reduction in charges, is as evident as that such an increase in quantity of traffic itself makes the required reduction in charges practicable.

The New York, Lake Erie and Western road presents a curious contrast to the Fitchburg Railroad in that, while the average distance freight is transported on the latter has increased to nearly four times that of 1860, the former carried traffic an average distance of only 155 miles in 1892 against 222 miles in 1852. Thus, whatever may be said in the case of the Fitchburg Railroad as to the apparent reduction be-

ing largely the result of the present preponderance of long-distance traffic, which is naturally taken at lower rates, it must be said that the reduction made by the Erie from 1.95 cents per ton per mile in 1852 to 0.614 cent in 1892 is probably the result of more economical methods and the greater volume of traffic.

The student of this table will undoubtedly find it practicable to carry on similar comparisons almost indefinitely, and will find that each of the roads shown presents some interesting and valuable contribution to the subject of reductions in railway freight charges.

TABLE 130.—AVERAGE FREIGHT RATES PER TON PER MILE CHARGED BY IMPORTANT RAILWAYS NAMED DURING EACH YEAR FROM 1852, FOR WHICH SUCH DATA CAN BE OBTAINED.

[Average rates for the years 1888 to 1892 are from reports made by the railways to the Interstate Commerce Commission; those for previous years have been compiled from sources believed to be reliable, and, with few exceptions, have been verified by officials of the roads. Figures for 1892 are as reported and have not been verified by the statistician.]

Years.	Boston and Albany R. R.	Boston and Worcester R.R.*	Western R. R.*	Fitchburg R. R.	Central Vermont R. R.	New York and New England R. R.	New York, New Haven and Hartford R. R.†	Canadian Pacific Rwy.	Delaware, Lackawanna and Western R. R.	New York, Ontario and Western Rwy.	Lehigh Valley R. R.	New York Central R. R.‡	Lake Shore and Michigan Southern Rwy.§	Michigan Central R. R.	New York, Chicago and St. Louis R. R.	Cleveland, Cincinnati, Chicago and St. Louis Rwy.
	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.
1852	.....	.....	.....	2.12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1853	.....	.....	.....	2.77	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.03
1854	.....	3.36	2.86	3.29	.....	.....	.....	.....	.....	.....	.....	.....	3.51	.....	.....	2.66
1855	.....	3.68	2.83	3.66	.....	.....	.....	.....	.....	.....	.....	3.02	3.21	.....	.....	2.60
1856	.....	4.14	3.13	4.24	.....	.....	3.80	.....	.....	.....	.....	2.95	2.96	.....	.....	2.55
1857	.....	4.25	3.22	3.93	.....	.....	4.44	.....	.....	.....	.....	3.12	2.74	.....	.....	2.52
1858	.....	3.64	2.93	3.78	.....	.....	4.18	.....	.....	.....	.....	2.59	2.38	.....	.....	2.26
1859	.....	3.67	2.96	3.88	.....	.....	4.20	.....	.....	.....	.....	2.18	2.29	.....	.....	1.97
1860	.....	3.58	2.54	4.10	.....	.....	4.04	.....	.....	.....	.....	2.05	2.16	2.18	.....	2.12
1861	.....	3.09	2.43	3.94	.....	.....	4.54	.....	.....	.....	.....	1.96	2.09	1.96	.....	1.86
1862	.....	.....	2.60	3.75	.....	.....	4.50	.....	.....	.....	.....	2.22	2.10	1.91	.....	1.96
1863	.....	.....	2.75	3.26	.....	.....	4.09	.....	.....	.....	.....	2.38	2.30	1.99	.....	2.13
1864	.....	.....	3.01	3.51	.....	.....	4.21	.....	.....	.....	.....	2.70	2.83	2.26	.....	2.64
1865	.....	3.88	3.55	4.09	.....	.....	4.76	.....	.....	.....	.....	3.26	2.90	3.06	.....	2.65
1866	.....	3.63	3.16	4.33	2.85	.....	5.52	.....	.....	.....	.....	2.87	2.48	2.60	.....	2.87
1867	.....	3.36	2.98	4.21	2.75	.....	4.94	.....	.....	.....	.....	2.46	2.43	2.49	.....	2.16
1868	2.81	.....	.....	4.06	2.53	6.40	5.12	.....	.....	.....	2.13	2.59	2.34	2.45	.....	1.94
1869	2.43	.....	.....	4.35	2.35	5.53	5.60	.....	.....	.....	2.40	2.20	1.71	2.09	.....	1.80
1870	2.19	.....	.....	4.31	1.86	4.46	6.23	.....	.....	5.87	2.27	1.88	1.50	1.98	.....	1.52
1871	2.09	.....	.....	.....	1.75	4.54	5.60	.....	.....	2.60	2.25	1.62	1.39	1.61	.....	1.36
1872	2.02	.....	.....	3.92	.....	4.27	3.74	.....	.....	2.50	2.01	1.59	1.37	1.56	.....	1.34
1873	1.96	.....	.....	3.77	1.83	4.42	3.78	.....	.....	2.47	2.11	1.57	1.34	1.57	.....	1.36
1874	1.82	.....	.....	4.32	1.83	4.80	3.70	.....	.....	2.28	2.13	1.46	1.18	1.29	.....	1.19
1875	1.53	.....	.....	4.13	.....	4.81	4.10	.....	.....	2.61	2.06	1.27	1.01	1.16	.....	1.01
1876	1.28	.....	.....	2.51	.....	4.72	3.54	.....	.....	2.73	1.72	1.05	.82	1.03	.....	.81
1877	1.21	.....	.....	2.08	1.41	4.22	3.34	.....	.....	2.75	1.40	1.01	.86	.98	.....	.89
1878	1.13	.....	.....	1.60	1.24	2.60	2.87	.....	.....	2.93	1.36	.93	.73	.85	.....	.75
1879	1.10	.....	.....	1.80	1.06	2.86	2.86	.....	.....	2.81	1.06	.78	.64	.60	.....	.70
1880	1.21	.....	.....	1.36	1.13	2.86	2.09	.....	1.30	2.87	1.34	.87	.75	.84	.....	79
1881	1.04	.....	.....	1.26	1.03	2.20	1.63	.....	1.28	2.40	1.27	.78	.62	.72	.....	67
1882	1.07	.....	.....	1.17	1.02	1.77	1.76	.....	1.19	1.97	1.33	.78	.63	.77	.....	.71
1883	1.19	.....	.....	1.19	1.09	1.88	1.89	.....	1.06	1.93	1.33	.91	.73	.88	.60	.75
1884	1.09	.....	.....	1.09	1.11	1.41	1.96	1.45	.97	1.55	1.26	.88	.65	.65	.48	.63
1885	.94	.....	.....	1.06	1.00	1.81	1.96	1.20	.94	1.20	1.07	.68	.55	.56	.44	.58
1886	1.10	.....	.....	1.07	.91	1.67	2.00	1.10	.93	1.53	1.11	.76	.64	.69	.54	.68
1887	1.10	.....	.....	1.13	.91	1.68	1.95	1.01	.96	1.65	1.12	.78	.67	.60	.55	.70
1888	1.069	.....	.....	1.116	.914	1.192	1.752	1.007	1.070	1.395	1.069	.753	.673	.702	.577	.685
1889	1.020	.....	.....	1.015	.869	1.844	1.830	.949	.983	1.400	.942	.712	.632	.702	.506	.675
1890	1.105	.....	.....	.995	.777	1.220	1.810	.885	.948	1.271	.855	.730	.664	.701	.524	.674
1891	1.069	.....	.....	.991	.....	1.140	1.793	.871	.896	1.033	.774	.740	.630	.723	.519	.683
1892	1.060	.....	.....	.926	.....	1.155	1.756	.869	.903	.939	.....	.700	.602	.687	.537	.710

* Consolidated during 1867, forming Boston and Albany R. R.

† Formed by consolidation, in 1872, of New York and New Haven and Hartford and New Haven Railroads. Figures prior to 1872 are for New York and New Haven only.

‡ Figures prior to 1870 do not include Hudson River R. R.

§ Figures prior to 1865 show Michigan Southern and Northern Indiana Rwy.

TABLE 130.—AVERAGE FREIGHT RATES PER TON PER MILE CHARGED BY IMPORTANT RAILWAYS NAMED, ETC.—Continued.

Years.	New York, Lake Erie and Western R. R.	New York, Pennsylvania and Ohio R. R.	Chicago and Erie R. R.	Pennsylvania R. R.	Pittsburg, Fort Wayne and Chicago Rwy.	Pittsburg, Cincinnati and St. Louis Rwy.	Chicago, St. Louis and Pittsburg R. R.	Pittsburg, Cincinnati, Chicago and St. Louis Rwy.	Baltimore and Ohio R. R.	Baltimore and Ohio Southwestern R. R.	Ohio and Mississippi Rwy.	Cincinnati, Hamilton and Dayton R. R.	Wabash R. R.	Louisville, New Albany and Chicago Rwy.	Chicago and Grand Trunk Rwy.	Chicago, Milwaukee and St. Paul Rwy.
	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.
1852	1.95	.....	.....	5.42	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1853	2.50	.....	.....	3.76	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1854	2.58	.....	.....	3.29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1855	2.42	.....	.....	2.75	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1856	2.48	.....	.....	2.71	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1857	2.46	.....	.....	2.41	2.27	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1858	2.32	.....	.....	2.18	1.90	.....	.....	.....	.....	.....	3.25	.....	.....	.....	.....	.....
1859	1.62	.....	.....	2.03	1.65	.....	.....	.....	.....	.....	2.75	.....	.....	.....	.....	.....
1860	1.81	.....	.....	1.96	1.67	.....	.....	.....	.....	.....	2.38	.....	.....	.....	.....	.....
1861	1.77	.....	.....	1.93	1.71	.....	.....	.....	.....	.....	2.20	.....	.....	.....	.....	.....
1862	1.89	.....	.....	2.04	1.90	.....	.....	.....	.....	.....	2.35	.....	.....	.....	.....	.....
1863	2.09	.....	.....	2.19	2.01	.....	.....	.....	.....	.....	2.81	.....	.....	.....	.....	3.34
1864	2.34	.....	.....	2.50	2.38	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.72
1865	2.76	.....	.....	2.72	2.44	.....	.....	.....	.....	.....	3.43	.....	.....	.....	.....	4.11
1866	2.43	.....	.....	2.32	2.02	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.76
1867	2.04	.....	.....	2.08	1.95	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.24
1868	1.81	.....	.....	1.86	1.70	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2.69
1869	1.54	1.26	.....	1.66	1.62	1.81	5.60	.....	.....	.....	2.24	.....	.....	.....	.....	2.10
1870	1.33	1.43	.....	1.50	1.45	.....	.....	.....	.....	.....	2.03	.....	.....	.....	.....	2.22
1871	1.43	1.34	.....	1.35	1.43	.....	.....	.....	.....	.....	2.14	.....	.....	.....	.....	2.54
1872	1.53	1.50	.....	1.46	1.40	1.41	1.27	.....	.....	.....	1.71	2.71	1.49	.....	.....	2.63
1873	1.45	1.45	.....	1.44	1.40	1.40	1.18	.....	.....	.....	1.81	.....	1.41	.....	.....	2.50
1874	1.31	1.19	.....	1.29	1.26	1.30	1.09	.....	.....	1.24	1.50	.....	1.26	.....	.....	2.32
1875	1.21	.98	.....	1.13	1.11	1.12	1.05	.....	.....	1.19	1.54	2.31	1.11	.....	.....	2.10
1876	1.10	.91	.....	.95	.93	.88	.85	.....	.....	1.03	1.27	2.04	.....	.....	.....	2.04
1877	.96	.91	.....	1.01	1.09	.93	.90	.....	.....	.85	1.04	1.54	.83	.....	.....	2.06
1878	.97	.84	.....	.93	.87	.79	.78	.....	.....	.....	1.14	1.56	.....	.....	.....	1.86
1879	.78	.70	.....	.82	.76	.72	.70	.....	.....	.....	.99	1.40	.....	.....	.....	1.72
1880	.84	.83	.....	.92	.92	.84	.80	.....	.....	.....	1.09	1.31	.86	.....	.62	1.76
1881	.81	.67	.....	.86	.75	.72	.67	.....	.....	.....	1.04	1.26	.93	.....	.52	1.70
1882	.75	.....	.....	.87	.75	.73	.66	.....	.....	.....	1.17	1.18	.95	.99	.58	1.65
1883	.79	.....	.....	.88	.79	.76	.72	.....	.....	.....	1.00	1.15	.95	.95	.66	1.39
1884	.72	.....	.52	.80	.67	.63	.60	.....	.....	.96	1.05	1.07	.86	.96	.57	1.29
1885	.66	.....	.44	.70	.58	.53	.52	.....	.....	.95	.82	.98	.80	.83	.53	1.28
1886	.66	.....	.42	.75	.69	.62	.59	.....	.....	.98	.70	.98	.82	.82	.62	1.17
1887	.69	.....	.46	.78	.72	.66	.63	.....	.....	.84	.72	.91	.86	.82	.59	1.09
1888	.716	.....	.511	.723	.66	.727	.646	.....	.655	.84	.763	.869	.744	.855	.590	1.093
1889	.644	.....	.525	.685	.69	.646	.594	.....	.637	.757	.813	.865	.709	.853	.582	1.087
1890	.665	.....	.541	.661	.69	.669	.626	.....	.686	.791	.854	.873	.647	.917	.600	1.095
1891	.658	.....	.532	.656	.....	.657	.627	.796	.643	.839	.937	.858	.733	.863	.589	1.082
1892	.614	.....	.525	.647	.....	.....	.....	.706	.651	.765	.911	.823	.705	.868	.593	1.078

TABLE 130.—AVERAGE FREIGHT RATES PER TON PER MILE CHARGED BY IMPORTANT RAILWAYS NAMED, ETC.—Continued.

Years.	Chicago and Northwestern Rwy.	Chicago, Burlington and Quincy R. R., east of Missouri River.	Chicago, Rock Island and Pacific Rwy.	Chicago and Alton R. R.	Illinois Central R. R.	Wisconsin Central Lines.	Northern Pacific R. R.	Union Pacific Rwy.	Atchison, Topeka and Santa Fe R. R.	Denver and Rio Grande R. R.	Texas and Pacific Rwy.	Chesapeake and Ohio Rwy.	Louisville and Nashville R. R.	Richmond and Danville R. R.	Mobile and Ohio Rwy.	Chicago, Burlington and Quincy, west of Missouri River.
	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.	Cts.
1852	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1853	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1854	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1855	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1856	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1857	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1858	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	6.04	.....	.....	.....	.....
1859	.....	.....	.....	.....	2.14	.....	.....	.....	.....	.....	.....	6.61	.....	.....	.....	.....
1860	.....	.....	.....	.....	2.04	.....	.....	.....	.....	.....	.....	6.41	.....	.....	.....	.....
1861	.....	.....	.....	.....	1.91	.....	.....	.....	.....	.....	.....	5.82	.....	.....	.....	.....
1862	.....	.....	.....	.....	1.96	.....	.....	.....	.....	.....	.....	7.57	.....	.....	.....	.....
1863	.....	2.35	2.68	.....	1.95	.....	.....	.....	.....	.....	.....	9.86	.....	.....	.....	.....
1864	.....	2.55	2.56	.....	2.51	.....	.....	.....	.....	.....	.....	24.55	.....	.....	.....	.....
1865	.....	3.64	3.51	.....	3.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1866	.....	3.70	3.45	.....	3.19	.....	.....	.....	.....	.....	.....	6.61	5.37	.....	.....	.....
1867	.....	.....	3.05	.....	2.90	.....	.....	.....	.....	.....	.....	5.22	4.13	.....	.....	.....
1868	3.13	3.18	3.35	.....	2.46	.....	.....	.....	.....	.....	.....	4.47	4.14	.....	.....	.....
1869	.....	3.25	2.98	.....	2.49	.....	.....	.....	.....	.....	.....	5.08	3.31	5.99	.....	.....
1870	3.09	3.06	2.74	.....	2.31	.....	.....	.....	.....	.....	.....	4.86	3.01	5.37	4.48	.....
1871	2.87	2.39	2.64	.....	2.32	.....	.....	.....	.....	.....	.....	4.97	2.57	5.43	4.16	.....
1872	2.61	2.20	2.49	.....	2.16	.....	.....	2.34	.....	6.14	.....	4.08	2.30	4.96	3.77	.....
1873	2.35	1.92	2.29	.....	2.20	.....	.....	2.17	3.10	5.38	.....	2.19	2.21	4.83	3.83	.....
1874	2.28	1.90	2.07	2.12	2.09	.....	.....	1.84	3.04	4.85	.....	1.50	2.15	4.01	3.53	.....
1875	2.10	1.95	1.92	1.89	1.93	2.57	.....	2.07	2.41	4.49	5.13	1.48	1.92	3.49	3.07	.....
1876	1.95	.....	1.91	1.63	1.80	2.17	.....	2.04	2.73	3.37	3.97	1.20	1.85	3.46	2.85	.....
1877	1.86	.....	1.71	1.45	1.82	2.02	.....	1.92	2.55	3.09	3.34	1.10	1.76	2.92	2.63	.....
1878	1.72	.....	1.56	1.30	1.64	2.13	.....	1.96	2.42	.....	3.26	.98	1.71	2.87	2.29	.....
1879	1.56	1.11	1.43	1.05	1.52	1.93	2.59	1.70	2.51	.....	3.12	.86	1.56	2.43	2.48	.....
1880	1.49	1.08	1.21	1.21	1.54	1.96	1.96	.....	2.88	.....	3.09	.87	1.60	2.16	2.20	3.15
1881	1.47	1.15	1.22	1.24	1.52	2.01	2.16	2.23	2.28	3.62	3.36	.89	1.50	2.07	2.06	3.20
1882	1.47	1.09	1.28	1.26	1.42	2.11	2.01	2.21	2.29	3.65	2.28	.79	1.35	1.95	2.15	3.04
1883	1.42	1.03	1.17	1.13	1.43	2.36	2.07	2.05	1.99	2.89	1.76	.72	1.32	2.06	2.28	2.71
1884	1.31	.97	1.10	1.01	1.37	2.11	1.90	1.80	1.93	2.90	1.64	.67	1.24	2.09	1.97	2.46
1885	1.19	.95	1.04	1.01	1.31	1.77	1.78	1.72	1.75	2.72	1.56	.55	1.16	1.95	1.70	2.24
1886	1.19	.94	1.07	.96	1.16	1.44	1.67	1.58	1.60	2.60	1.67	.54	1.10	1.93	1.51	2.04
1887	1.10	.87	1.01	.95	1.09	1.30	1.63	1.42	1.35	2.39	1.46	.54	1.02	1.92	1.32	1.81
1888	.963	.78	.964	.973	1.069	.....	1.437	1.170	1.289	2.346	1.314	.54	1.049	1.710	1.018	1.42
1889	1.013	.88	.971	1.002	.839	.971	1.429	1.166	1.289	2.212	1.455	.538	.998	1.476	.958	1.60
1890	.977	.79	.995	.898	.942	.936	1.430	1.138	1.129	2.054	1.249	.561	.972	1.310	.924	1.49
1891	1.028	.88	1.039	.980	.934	.988	1.382	1.131	1.175	2.006	1.279	.525	.968	1.416	.867	1.41
1892	1.013	.987	1.055	.973	.908	.868	1.402	1.081	1.130	1.863	1.226	.....	.948	1.355	.845	.....

FREIGHT TONNAGE AND EARNINGS OF THE PRINCIPAL RAILWAYS IN THE UNITED STATES.

For the purpose of showing the increase which has taken place in the freight traffic of the United States data have been collected which are shown in the following tables.

The first table shows the number of tons of freight carried one mile by the more important railways of the United States, which, for convenience of expression, has been reduced to millions of tons. The growth of the business of each line is shown from as early a date as the data were available. The carriers selected are the important roads in different sections of the country, and represent about 60 per cent of the total railway mileage of the United States.

The second table shows the aggregate tonnage carried by various important roads in different sections of the country. The data of this table is shown, for a majority of the roads, for a period of thirty years.

The third table shows for the same carriers the gross freight earnings for as many years as such data could be obtained. The data included in these tables for years prior to 1888 have been collected from what are believed to be the most reliable sources available, while for the years from 1888 to 1892, inclusive, the figures shown are those given in the reports of the several railways to the Interstate Commerce Commission.

TABLE 131.—NUMBER OF MILLIONS OF TONS OF FREIGHT CARRIED ONE MILE BY THE MORE IMPORTANT RAILWAYS OF THE UNITED STATES DURING EACH YEAR FROM 1852, FOR WHICH SUCH DATA CAN BE OBTAINED.

[Compiled from reports to Interstate Commerce Commission and various numbers of Poor's Manual.]

Years.	Boston and Albany R. R.	Fitchburg R. R.	Central Vermont R. R.	New York and New England R. R.	New York, New Haven and Hartford R. R.	Canadian Pacific Rwy.	Delaware, Lackawanna and Western Rwy.	New York, Ontario and Western R. R.	Philadelphia and Reading R. R.	Lehigh Valley R. R.	New York Central and Hudson River R. R.	Lake Shore and Michigan Southern Rwy.	Michigan Central R. R.	New York, Chicago and St. Louis Rwy.	Cleveland, Cincinnati, Chicago and St. Louis Rwy.	New York, Lake Erie and Western R. R.
1852	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	[illegible]
1853	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	142
1854	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	99	.....	.....	.....	.....	[illegible]
1855	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	115	.....	.....	.....	.....	151
1856	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	166	.....	.....	.....	.....	155
1857	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	166	.....	.....	.....	.....	165
1858	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	161	.....	.....	.....	.....	166
1859	53	.....	.....	.....	.....	.....	.....	.....	.....	.....	187	.....	.....	.....	.....	147
1860	56	9	.....	.....	.....	.....	.....	.....	.....	.....	239	.....	.....	.....	.....	214
1861	61	8	.....	.....	.....	.....	.....	.....	.....	.....	280	.....	.....	.....	.....	151
1862	67	9	.....	.....	3	.....	.....	.....	.....	.....	358	.....	82	.....	.....	161
1863	69	13	.....	.....	4	.....	.....	.....	.....	2	387	.....	100	.....	.....	484
1864	76	14	.....	.....	6	.....	.....	.....	.....	2	387	.....	92	.....	.....	622
1865	70	14	.....	.....	6	.....	.....	.....	.....	2	319	.....	73	.....	.....	589
1866	96	14	.....	.....	7	.....	.....	.....	.....	3	389	.....	85	.....	.....	474
1867	107	14	.....	3	7	.....	.....	.....	.....	3	435	.....	92	.....	.....	560
1868	121	16	47	9	21	.....	.....	.....	.....	4	455	.....	101	.....	95	586
1869	159	17	54	6	25	.....	.....	.....	.....	4	589	.....	132	.....	116	818
1870	149	16	66	6	29	.....	.....	3	.....	5	769	574	133	.....	149	880
1871	227	.....	.....	8	29	.....	.....	8	.....	4	888	734	191	.....	211	897
1872	290	20	*164	9	39	.....	.....	24	.....	6	1,021	925	217	.....	256	881
1873	318	21	.....	9	39	.....	.....	39	.....	.....	1,247	1,054	246	.....	274	1,033
1874	291	22	*244	9	36	.....	212	34	694	.....	1,392	999	313	.....	264	1,047
1875	282	22	.....	9	35	.....	229	15	605	.....	1,404	943	318	.....	262	1,017
1876	302	42	.....	9	37	.....	175	13	606	.....	1,674	1,134	396	.....	313	1,060
1877	314	53	128	11	40	.....	169	14	779	.....	1,620	1,080	†474	.....	276	1,115
1878	330	68	123	19	46	.....	188	13	666	.....	2,043	1,340	‡252 548	.....	346	1,235
1879	325	93	148	37	63	.....	308	13	889	.....	2,296	1,733	§721	.....	401	1,500
1880	375	109	176	44	78	.....	317	14	861	.....	2,525	1,851	736	.....	430	1,721
1881	417	117	170	65	117	.....	676	20	957	.....	2,647	2,022	790	.....	481	1,904
1882	374	129	177	104	117	.....	712	31	1,032	.....	2,395	1,893	703	12	447	1,854
1883	374	136	.....	153	131	.....	1,080	39	1,499	.....	2,201	1,690	1,141	334	408	2,357
1884	374	144	.....	139	126	.....	1,149	69	1,695	.....	1,970	1,411	1,179	604	398	2,489
1885	398	162	.....	108	124	407	1,163	94	1,902	.....	2,138	1,603	1,232	668	439	2,802
1886	390	195	.....	135	139	555	1,315	61	2,098	.....	2,414	1,592	1,157	659	434	2,882
1887	406	239	269	153	150	688	1,476	55	1,380	.....	2,705	1,844	1,341	811	453	3,023
1888	405	283	289	188	168	757	1,551	87	1,347	712	2,688	1,840	1,333	825	399	2,980
1889	423	346	302	237	225	853	1,520	92	1,368	1,220	2,781	1,782	1,214	849	223	3,109
1890	402	390	390	282	249	1,057	1,612	115	1,562	1,517	2,956	2,087	1,328	978	1,087	3,515
1891	401	437	.....	322	255	1,327	1,762	195	1,631	1,804	2,890	2,061	1,298	1,067	1,222	3,486
1892	447	496	.....	311	.....	1,524	1,817	264	.....	.....	3,830	2,490	1,548	1,065	1,268	4,288

*Two years ending July 1, 1873 and 1874. † Year ending May 31. ‡ Eight months, June 1 to December 31.
§ Year ending December 31. ‖ Figures as reported, not verified in this office.

TABLE 131.—NUMBER OF MILLIONS OF TONS OF FREIGHT CARRIED ONE MILE BY THE MORE IMPORTANT RAILWAYS OF THE UNITED STATES, ETC.—Continued.

Years	New York, Pennsylvania and Ohio R. R.	Chicago and Erie R. R.	Pennsylvania R. R.	Pittsburg, Fort Wayne and Chicago Rwy.	Pittsburg, Cincinnati and St. Louis Rwy.	Chicago, St. Louis and Pittsburg Rwy.	Pittsburg, Cincinnati, Chicago and St. Louis Rwy.	Baltimore and Ohio R. R.	Baltimore and Ohio Southwestern R. R.	Ohio and Mississippi Rwy.	Cincinnati, Hamilton and Dayton R. R.	Wabash R. R.	Louisville, New Albany and Chicago Rwy.	Chicago and Grand Trunk Rwy.	Chicago, Milwaukee and St. Paul Rwy.	Chicago and Northwestern Rwy.
1852	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1853	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1854	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1855	.....	.....	102	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1856	.....	.....	120	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1857	.....	.....	140	29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1858	.....	.....	162	35	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1859	.....	.....	180	58	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1860	.....	.....	214	78	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1861	.....	.....	280	111	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1862	.....	.....	376	123	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1863	.....	.....	394	167	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1864	.....	.....	421	175	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1865	.....	.....	420	194	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	41	.....
1866	.....	.....	513	233	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	44	.....
1867	.....	.....	566	229	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	96	.....
1868	.....	.....	676	307	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	120	.....
1869	320	.....	753	310	94	41	.....	.....	.....	58	.....	.....	.....	.....	158	.....
1870	232	.....	826	336	.....	.....	.....	.....	.....	70	.....	.....	.....	.....	181	365
1871	261	.....	1,012	391	.....	.....	.....	.....	.....	88	.....	.....	.....	.....	174	268
1872	228	.....	1,190	488	197	.....	.....	.....	.....	108	22	289	.....	.....	187	288
1873	311	.....	1,385	480	206	280	.....	.....	.....	143	21	307	.....	.....	258	366
1874	319	.....	1,373	465	204	247	.....	.....	112	147	22	278	.....	.....	259	461
1875	283	.....	1,479	491	208	240	.....	.....	101	145	22	214	.....	.....	273	455
1876	293	.....	1,630	563	250	275	.....	.....	108	173	.....	.....	.....	.....	265	503
1877	329	.....	2,180	440	237	254	.....	.....	111	.....	93	381	.....	.....	272	485
1878	331	.....	2,432	637	288	305	.....	.....	.....	167	.....	502	.....	.....	322	624
1879	436	.....	3,061	803	367	403	.....	.....	.....	209	.....	.....	39	.....	402	682
1880	474	.....	3,293	806	385	441	.....	.....	.....	247	.....	1,106	.....	160	505	866
1881	610	.....	3,701	1,044	401	542	.....	.....	.....	283	139	1,150	.....	229	697	981
1882	695	.....	3,977	992	415	548	.....	.....	.....	179	.....	1,248	103	244	945	1,192
1883	.....	.....	4,127	945	428	*401	.....	.....	.....	261	.....	1,264	120	301	1,177	1,184
1884	.....	196	4,192	908	432	485	.....	.....	.....	225	166	1,374	116	376	1,247	1,350
1885	.....	209	4,501	954	523	613	.....	.....	.....	253	169	1,184	.....	373	1,338	1,417
1886	.....	212	4,635	903	561	588	.....	.....	.....	319	170	1,102	164	354	1,487	1,467
1887	.....	320	5,261	1,107	657	684	.....	2,048	176	334	.....	1,075	202	416	1,629	1,755
1888	.....	339	5,413	1,005	744	642	.....	2,192	.....	297	237	610	184	401	1,660	1,954
1889	.....	299	5,834	1,087	767	657	.....	2,248	150	273	235	635	189	386	1,621	1,778
1890	.....	371	6,908	1,226	879	782	.....	2,645	83	285	250	1,430	187	477	1,843	2,034
1891	.....	310	6,870	1,122	233	208	1,151	2,562	164	249	270	1,209	217	456	1,896	1,945
1892	.....	420	7,362	.....	.....	.....	1,746	2,723	220	271	323	1,391	246	464	2,266	2,302

* Nine months, ending December 31.

TABLE 131.—NUMBER OF MILLIONS OF TONS OF FREIGHT CARRIED ONE MILE BY THE MORE IMPORTANT RAILWAYS OF THE UNITED STATES, ETC.—Continued.

Years.	Chicago, Burlington and Quincy.	Chicago, Rock Island and Pacific.	Chicago and Alton R. R.	Illinois Central R. R.	Wisconsin Central R. R.	Northern Pacific R. R.	Union Pacific Rwy.	Atchison, Topeka and Santa Fé R. R.	Denver and Rio Grande R. R.	Texas and Pacific Rwy.	Chesapeake and Ohio Rwy.	Louisville and Nashville R. R.	Richmond and Danville R. R.	Mobile and Ohio R. R.
1852	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1853	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1854	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1855	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1856	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1857	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1858	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1859	----	----	----	----	----	----	----	----	----	----	----	←	----	----
1860	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1861	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1862	----	----	----	----	----	----	----	----	----	----	----	----	----	----
1863	108	89	----	----	----	----	----	----	----	----	----	----	----	----
1864	117	57	----	----	----	----	----	----	----	----	----	----	----	----
1865	108	63	----	136	----	----	----	----	----	----	----	----	----	----
1866	114	59	----	135	----	----	----	----	----	----	----	----	4	----
1867	138	80	----	171	----	----	----	----	----	----	5	----	6	----
1868	132	88	----	226	----	----	----	----	----	----	7	20	6	----
1869	146	120	----	253	----	----	----	----	----	----	----	41	6	----
1870	147	131	----	265	----	----	72	----	----	----	7	72	8	----
1871	207	152	----	262	----	----	134	----	----	----	8	----	9	----
1872	241	169	----	272	----	----	178	----	3	----	9	----	18	----
1873	418	219	----	275	----	----	223	25	4	----	32	142	15	----
1874	446	250	162	274	15	----	262	27	4	7	60	147	14	----
1875	436	288	169	285	19	----	269	46	5	14	66	136	16	----
1876	477	268	218	264	22	----	292	62	----	28	98	----	17	----
1877	655	337	212	249	23	----	335	73	14	43	117	202	22	----
1878	952	370	248	306	23	----	366	133	----	51	153	225	24	71
1879	1,139	511	402	335	31	----	436	----	----	51	168	287	33	84
1880	1,248	686	481	381	42	81	----	267	----	66	*230	320	41	92
1881	1,275	712	447	386	48	96	783	396	120	102	298	453	72	75
1882	1,222	788	475	418	----	193	783	461	121	206	345	597	119	73
1883	1,552	702	549	605	39	244	746	521	193	259	436	664	126	73
1884	1,580	735	603	578	43	400	922	635	152	245	406	687	126	77
1885	1,813	781	529	623	56	391	1,110	608	169	125	480	751	----	97
1886	1,852	720	561	720	70	482	1,261	687	193	257	613	802	----	97
1887	2,126	794	642	831	105	537	1,490	909	242	287	653	954	----	113
1888	1,581	931	582	771	152	705	1,171	817	259	333	655	1,104	315	121
1889	1,727	903	494	1,061	123	875	1,102	755	48	305	612	773	428	119
1890	1,998	1,235	595	1,063	367	1,096	1,281	1,330	280	406	1,008	884	555	156
1891	1,646	1,082	477	1,302	379	1,258	1,209	1,456	309	380	1,126	902	472	136
1892	†2,173	1,188	562	1,411	459	†1,228	1,318	1,691	323	387	----	†1,051	468	168

* For fifteen months, termination of year being changed from September 30 to December 31.
† Figures as reported, not verified in this office.

TABLE 132.—AGGREGATE TONNAGE CARRIED BETWEEN ALL POINTS BY VARIOUS IMPORTANT RAILWAYS DURING EACH YEAR FROM 1852, FOR WHICH SUCH DATA CAN BE PROCURED.

Year.	Freight (tons carried).							
	Boston and Albany R. R.	Fitchburg R. R.	Central Vermont R. R.	New York, and New England R. R.	New York, New Haven and Hartford R.R	Canadian Pacific Rwy.	Delaware, Lackawanna and Western R. R.	New York, Ontario and Western R. R.
1850....	775, 695	.....	.....	.....	.....	.....	.....	.....
1860....	856, 546	295, 003	.....	.....	.....	.....	.....	.....
1861....	853, 352	325, 500	.....	.....	.....	.....	.....	.....
1862....	969, 998	345, 254	.....	.....	245, 712	.....	1, 316, 892	.....
1863....	1, 077, 656	419, 314	.....	.....	307, 346	.....	1, 510, 495	.....
1864....	1, 174, 892	488, 530	.....	.....	375, 333	.....	1, 621, 360	.....
1865....	1, 121, 158	486, 615	.....	.....	406, 622	.....	1, 200, 097	.....
1866....	1, 433, 883	512, 874	.....	.....	472. 663	.....	1, 920, 874	.....
1867....	1, 532, 005	511, 488	.....	102, 314	482. 005	.....	2, 140, 134	.....
1868....	1, 319, 059	550, 268	477, 606	370, 191	489, 148	.....	2, 128, 512	.....
1869....	1, 613, 940	670, 439	650, 146	233, 271	568, 271	.....	1, 993, 946	.....
1870....	[1] 1, 531, 149	624, 615	675, 884	214, 191	695, 579	.....	3, 396. 004	50. 006
1871....	2. 209, 322	.....	[2] 1, 823, 680	294, 177	755. 749	.....	2. 363. 568	137. 151
1872....	2, 732, 907	740, 122		345. 668	892. 579	.....	3, 347. 671	370. 418
1873....	2. 884, 520	777, 268	[2] 2, 706, 154	363. 734	895, 985	.....	4. 448. 769	490. 706
1874....	2. 668, 403	965, 795		362. 513	815. 379	.....	3, 653. 763	455. 372
1875....	2, 439, 472	726, 766	.....	344. 508	827, 832	.....	3, 896. 344	235. 042
1876....	2, 541, 274	887, 859	.....	330. 667	836, 019	.....	2, 923, 089	228. 103
1877....	2. 601, 657	955, 771	1, 089. 822	350, 005	886, 476	.....	2, 922, 803	222. 507
1878....	2. 642. 556	1, 115, 771	1, 006. 102	435. 367	898. 799	.....	3, 193, 531	212. 541
1879....	2, 738, 096	1, 313, 289	1, 204. 637	871. 187	1. 209. 630	.....	5. 283. 442	216. 100
1880....	3, 310, 530	1, 546, 950	1, 811. 228	968. 549	1. 348. 678	.....	5, 209. 359	255. 410
1881....	3, 563, 923	1, 776, 960	1, 465. 712	1, 176, 795	1, 655. 513	.....	7, 115. 065	348. 513
1882....	3, 415, 329	1, 822, 262	1, 661. 867	1, 572. 374	1, 908. 322	.....	7, 452. 757	469, 526
1883....	3, 411, 324	2, 031, 122	1, 612. 352	1, 801. 360	2, 160, 023	.....	8. 150. 299	562. 836
1884....	3, 325, 517	2, 112, 155	1. 544. 871	1. 786. 531	2. 181. 250	.....	8, 411. 216	1, 004. 248
1885....	3, 446, 413	2, 158, 283	1, 600. 266	1. 715. 661	2, 148. 463	1, 996. 355	8, 203. 714	1, 470. 808
1886....	3, 506, 476	2, 509, 131	1, 802. 966	2. 049. 339	2, 376, 195	2, 046. 195	9. 318. 773	807. 441
1887....	3, 674, 589	2, 919, 629	2. 659. 031	2. 225. 141	2, 602. 157	2, 144. 327	10, 558, 055	661. 825
1888....	3, 719, 992	3, 117, 152	2, 586, 334	2. 526, 937	2, 336, 224	2. 321. 957	11, 070. 389	1. 277. 519
1889....	3, 859, 516	3, 448, 160	2, 715, 251	2, 705. 332	3. 246. 833	2, 636. 121	10, 793. 278	1. 353. 885
1890....	3, 883, 115	3, 971, 318	3, 273, 142	2, 973. 813	3, 563, 873	3, 095, 784	10, 936. 685	1, 473. 788
1891....	3, 913, 873	4, 215, 024	.....	3, 290. 876	3, 802, 012	3, 675, 113	12, 199. 053	1. 737. 059
1892....	4, 296, 575	4, 570, 377	.....	3, 272, 110	.....	4, 656, 575	12, 910, 744	2, 085, 769

[1] Ten months only. [2] Two years ending July 1, 1872. [3] Two years ending July 1, 1874.

TABLE 132.—AGGREGATE TONNAGE CARRIED BETWEEN ALL POINTS BY VARIOUS IMPORTANT RAILWAYS DURING EACH YEAR, ETC.—Continued.

Year.	Freight (tons carried).							
	Philadelphia and Reading R. R.	Lehigh Valley R. R.	New York Central and Hudson River R. R.	Lake Shore and Michigan Southern Rwy.	Michigan Central R. R.	New York, Chicago and Saint Louis R. R.	Cleveland, Cincinnati, Chicago and Saint Louis Rwy.	New York, Lake Erie and Western R. R.
1852	.....	.....	.....	.....	.....	.....	.....	430,469
1853	.....	.....	.....	.....	.....	.....	.....	631,889
1854	.....	.....	549,805	.....	.....	.....	.....	743,250
1855	.....	.....	670,078	.....	.....	.....	.....	842,656
1856	.....	.....	932,844	.....	.....	.....	.....	983,221
1857	.....	.....	1,075,589	.....	.....	.....	.....	970,487
1858	.....	.....	925,604	.....	.....	.....	.....	816,984
1859	.....	.....	1,093,284	.....	.....	.....	.....	889,972
1860	.....	.....	1,366,035	.....	.....	.....	.....	1,139,554
1861	.....	.....	1,537,400	.....	.....	.....	.....	1,253,419
1862	.....	.....	1,905,173	.....	463,812	.....	.....	1,622,955
1863	.....	.....	2,106,571	.....	564,827	.....	.....	1,815,086
1864	.....	.....	2,158,972	.....	542,410	.....	.....	2,170,708
1865	.....	.....	1,767,149	.....	485,275	.....	.....	2,224,359
1866	.....	.....	2,099,504	.....	583,451	.....	.....	3,242,973
1867	.....	.....	2,249,363	.....	578,177	.....	.....	3,484,545
1868	.....	.....	2,562,862	.....	638,586	.....	628,356	3,908,389
1869	.....	.....	3,190,840	.....	802,835	.....	825,465	4,312,380
1870	.....	.....	4,122,000	2,978,725	823,770	.....	935,840	4,952,585
1871	.....	.....	4,582,056	3,784,525	1,105,875	.....	1,777,657	4,944,380
1872	.....	.....	4,393,965	4,443,092	1,708,964	.....	1,444,354	5,564,274
1873	10,663,333	6,901,905	5,522,724	5,176,661	1,999,671	.....	1,680,588	6,312,702
1874	10,209,500	6,606,555	6,114,678	5,221,267	2,186,786	.....	1,531,952	6,264,276
1875	8,886,317	5,402,271	6,001,954	5,022,490	2,375,498	.....	1,611,174	6,289,942
1876	8,759,908	6,148,583	6,803,690	5,635,167	2,686,248	.....	1,745,367	5,972,618
1877	10,963,604	7,424,969	6,851,356	5,513,398	[1]4,764,611	.....	1,624,200	6,182,456
1878	9,376,075	6,127,093	7,095,413	6,098,445	3,564,731	.....	1,949,484	6,150,486
1879	13,303,265	7,616,523	9,015,753	7,541,294	3,513,819	.....	2,299,711	8,212,641
1880	13,184,982	8,807,346	10,583,038	8,350,336	3,797,137	.....	2,441,643	8,715,883
1881	14,384,710	10,761,795	11,591,379	9,164,508	4,196,896	.....	2,880,922	11,095,233
1882	15,212,320	10,693,454	11,330,393	9,195,538	3,913,869	45,758	2,755,867	11,885,236
1883	19,118,517	10,434,508	10,892,440	8,478,605	5,197,278	981,830	2,527,993	12,610,633
1884	19,781,705	9,336,906	10,212,418	7,365,688	5,141,597	1,762,778	2,347,792	11,071,936
1885	20,208,932	10,179,171	10,802,957	8,023,093	5,236,276	1,984,364	2,513,780	10,253,498
1886	22,669,394	11,295,044	12,718,101	8,305,597	5,345,570	2,056,148	2,644,081	12,898,915
1887	18,195,990	11,247,518	14,026,954	9,328,852	6,014,233	2,468,796	2,808,146	12,849,309
1888	17,747,615	9,670,987	14,939,255	9,262,397	6,076,936	2,582,308	1,705,288	20,620,849
1889	18,438,707	14,371,247	14,988,281	9,304,575	6,194,473	2,732,102	1,778,372	21,267,751
1890	19,401,123	13,550,147	16,108,441	10,975,241	6,798,467	3,084,590	6,591,610	22,926,188
1891	21,084,490	14,394,983	16,621,567	11,259,811	6,947,945	3,304,425	7,801,377	24,394,567
1892	.....	.....	20,721,752	13,332,519	7,731,061	3,445,947	8,524,988	[2]26,582,789

[1] Twenty months.

[2] Figures as reported, not verified in this office.

TABLE 132.—AGGREGATE TONNAGE CARRIED BETWEEN ALL POINTS BY VARIOUS IMPORTANT RAILWAYS DURING EACH YEAR, ETC.—Continued.

Year.	Freight (tons carried).							
	New York, Pennsylvania and Ohio R. R.[1]	Chicago and Erie R. R.	Pennsylvania R. R.[2]	Pittsburg, Fort Wayne, and Chicago Rwy.	Pittsburg, Cincinnati and St. Louis Rwy.	Chicago, St. Louis and Pittsburg Rwy.	Pittsburg, Cincinnati, Chicago and St. Louis Rwy.	Baltimore and Ohio R. R.
1857	.....	.....	826, 518	304, 769	.....	.....	.....	.....
1858	.....	.....	1, 046, 899	235, 663	.....	.....	.....	.....
1859	.....	.....	1, 170, 246	362, 606	.....	.....	.....	.....
1860	.....	.....	1, 346, 525	465, 204	.....	.....	.....	.....
1861	.....	.....	1, 482, 087	526, 379	.....	.....	.....	.....
1862	.....	.....	2, 058, 548	643, 107	.....	.....	.....	.....
1863	.....	.....	2, 265, 413	865, 525	.....	.....	.....	.....
1864	.....	.....	2, 585, 379	858, 928	.....	.....	.....	.....
1865	.....	.....	2, 555, 709	832, 615	.....	.....	.....	.....
1866	.....	.....	3, 186, 356	1, 025, 978	.....	.....	.....	.....
1867	.....	.....	3, 709, 224	1, 154, 351	.....	.....	.....	.....
1868	.....	.....	4, 427, 884	1, 509, 052	.....	.....	.....	.....
1869	.....	.....	4, 991, 995	1, 665, 190	.....	516, 815	.....	.....
1870	.....	.....	5, 427, 401	1, 740, 585	.....	.....	.....	.....
1871	.....	.....	6, 575, 843	2, 047, 114	.....	.....	.....	.....
1872	.....	.....	7, 844, 778	2, 407, 018	.....	1, 390, 597	.....	.....
1873	.....	.....	9, 211, 234	2, 292, 644	.....	1, 473, 023	.....	.....
1874	2, 709, 184	.....	16, 420, 321	2, 309, 128	1, 471, 207	1, 390, 483	.....	.....
1875	2, 429, 421	.....	15, 772, 722	2, 496, 148	1, 536, 261	1, 370, 069	.....	.....
1876	2, 507, 195	.....	16, 333, 353	2, 604, 767	1, 808, 761	1, 617, 123	.....	.....
1877	2, 761, 493	.....	16, 382, 268	2, 690, 735	1, 722, 386	1, 521, 141	.....	.....
1878	2, 653, 839	.....	17, 600, 447	3, 026, 250	2, 142, 155	1, 791, 961	.....	.....
1879	3, 259, 843	.....	22, 867, 162	3, 679, 382	2, 726, 847	2, 310, 059	.....	.....
1880	4, 125, 979	.....	26, 051, 091	3, 865, 575	3, 099, 994	2, 484, 721	.....	.....
1881	.....	.....	32, 606, 264	4, 753, 220	3, 297, 844	2, 967, 149	.....	.....
1882	.....	.....	35, 840, 060	4, 837, 236	3, 125, 645	3, 001, 019	.....	.....
1883	.....	.....	37, 379, 546	5, 076, 311	3, 466, 544	2, 135, 148	.....	.....
1884	.....	831, 761	38, 106, 544	4, 696, 583	3, 630, 919	2, 517, 062	.....	.....
1885	.....	900, 209	40, 880, 100	4, 711, 888	4, 066, 386	3, 031, 695	.....	.....
1886	.....	955, 334	44, 121, 327	5, 413, 597	4, 864, 889	3, 075, 385	.....	.....
1887	.....	1, 274, 204	51, 215, 785	6, 315, 075	5, 560, 539	3, 546, 260	.....	.....
1888	.....	1, 582, 324	51, 782, 247	6, 210, 816	7, 717, 282	3, 374, 433	.....	11, 438, 320
1889	.....	1, 445, 143	54, 686, 113	7, 113, 671	7, 909, 760	3, 997, 634	.....	12, 236, 223
1890	.....	1, 792, 782	65, 173, 118	7, 942, 888	8, 936, 566	4, 772, 290	.....	14, 245, 975
1891	.....	1, 491, 301	50, 013, 674	.....	[3]2, 375, 841	[3]1, 254, 398	[4]10, 231, 022	15, 097, 632
1892	.....	1, 992, 992	54, 769, 382	.....	.....	.....	13, 726, 857	15, 738, 858

[1] Years subsequent to 1880 included in New York, Lake Erie and Western R. R.
[2] Figures for 1873 and previous years cover Pennsylvania R. R. division only.
[3] Three months. [4] Nine months.

TABLE 132.--AGGREGATE TONNAGE CARRIED BETWEEN ALL POINTS BY VARIOUS IMPORTANT RAILWAYS DURING EACH YEAR, ETC.—Continued.

Year.	Freight (tons carried).							
	Baltimore and Ohio Southwestern R. R.	Ohio and Mississippi Rwy.	Cincinnati, Hamilton, and Dayton R. R.[1]	Wabash R. R.	Louisville, New Albany and Chicago Rwy.	Chicago and Grand Trunk Rwy.	Chicago, Milwaukee and St. Paul Rwy.	Chicago and Northwestern Rwy.
1861	.....	.....	276,193	.....	.....	.....	.....	.....
1862	.....	.....	249,540	.....	.....	.....	.....	.....
1865	.....	.....	.....	.....	.....	.....	.....	958,494
1866	.....	.....	412,847	.....	.....	.....	.....	1,370,516
1867	.....	.....	.....	.....	.....	.....	.....	1,728,519
1868	.....	.....	497,466	.....	.....	.....	1,134,565	1,962,629
1869	.....	.....	508,692	.....	.....	.....	1,344,358	2,211,250
1870	.....	.....	395,432	.....	.....	.....	1,522,753	2,222,978
1871	.....	.....	486,030	.....	.....	.....	1,468,156	2,298,170
1872	.....	.....	551,936	1,349,052	.....	.....	1,687,826	2,510,016
1873	.....	.....	564,542	1,442,963	.....	.....	1,791,504	2,956,290
1874	.....	.....	616,830	1,277,356	.....	.....	1,735,525	3,591,686
1875	.....	.....	617,860	1,092,219	.....	.....	1,832,527	3,153,315
1876	.....	.....	711,230	.....	.....	.....	1,765,801	3,471,927
1877	.....	.....	744,723	1,403,866	.....	.....	1,687,057	3,413,398
1878	.....	.....	759,569	1,952,003	.....	.....	1,965,699	3,911,261
1879	.....	.....	815,963	.....	415,998	135,644	2,559,734	4,265,907
1880	.....	.....	828,272	4,533,187	.....	702,153	3,260,553	5,574,635
1881	.....	.....	2,187,632	5,393,917	.....	878,325	4,276,088	6,662,112
1882	.....	.....	.....	5,911,012	764,661	978,812	5,127,767	8,190,888
1883	.....	.....	.....	5,859,566	830,318	1,131,251	5,661,667	7,874,665
1884	.....	.....	2,681,861	6,358,761	902,246	1,370,530	6,023,016	8,453,998
1885	.....	.....	2,753,999	5,558,571	.....	1,380,958	6,482,869	8,235,127
1886	.....	.....	2,827,048	5,486,067	1,179,736	1,375,851	7,085,072	8,494,230
1887	.....	.....	.....	3,337,678	1,462,205	1,584,720	7,578,795	9,737,312
1888	.....	1,630,477	3,724,865	3,358,988	1,259,491	1,540,659	7,675,934	11,059,616
1889	1,375,570	1,652,548	3,556,831	3,590,366	1,250,190	1,562,480	7,769,875	11,084,841
1890	757,747	1,787,058	3,803,251	6,832,358	1,251,978	1,896,325	9,292,992	13,450,324
1891	1,730,357	1,866,836	2,786,592	6,256,064	1,354,174	1,860,752	10,397,035	13,547,686
1892	1,966,471	2,096,789	3,611,175	6,928,051	1,594,801	1,874,615	11,568,930	15,766,545

[1] Figures for years prior to 1880 show Cincinnati, Hamilton and Dayton R. R. main line only.

Year.	Freight (tons carried).							
	Chicago, Burlington and Quincy R. R.	Chicago, Rock Island and Pacific Rwy.	Chicago and Alton R. R.	Illinois Central R. R.	Wisconsin Central R. R.	Northern Pacific R. R.	Union Pacific Rwy.	Atchison, Topeka and Santa Fe R. R.
1862	.....	.....	.....	806,685	.....	.....	.....	.....
1863	777,736	879,879	.....	952,814	.....	.....	.....	.....
1864	809,674	441,570	396,197	1,022,024	.....	.....	.....	.....
1865	737,511	472,557	511,012	1,034,946	.....	.....	.....	.....
1866	821,883	459,966	636,360	1,153,175	.....	.....	.....	.....
1867	978,583	598,914	750,657	1,300,835	.....	.....	.....	.....
1868	937,489	654,435	915,682	1,439,675	.....	.....	.....	.....
1869	1,029,746	846,787	1,076,878	1,601,972	.....	.....	.....	89,917
1870	1,052,754	856,668	1,261,032	1,623,944	.....	.....	.....	87,571
1872	[1]3,031,314	1,014,348	1,601,799	2,039,321	.....	.....	378,650	.....
1873	2,221,744	1,286,966	1,642,443	2,057,360	40,652	.....	487,484	156,653
1874	2,420,628	1,399,384	1,421,158	2,069,935	189,492	39,111	482,806	186,312
1875	2,396,933	1,717,727	1,545,842	2,016,424	202,383	21,540	501,410	252,383
1876	2,892,614	1,640,000	1,818,235	1,899,627	215,468	36,759	629,947	325,633
1877	3,249,625	1,651,409	1,560,188	1,803,044	221,835	47,985	716,112	372,036
1878	3,975,010	1,768,118	1,967,306	2,067,832	244,976	104,941	844,019	611,036
1879	4,686,520	2,236,270	2,634,177	2,324,485	325,078	145,268	992,886	803,112
1880	6,636,186	2,966,764	3,071,788	2,703,582	405,785	365,743	.....	953,701
1881	6,710,750	3,376,260	3,275,004	2,875,838	469,198	449,067	2,065,030	1,196,462
1882	6,346,259	3,754,531	3,522,840	2,909,578	.....	787,471	2,101,635	1,475,140
1883	7,645,701	3,454,888	3,488,496	3,538,562	426,448	1,092,296	2,583,297	1,754,265
1884	7,525,997	3,618,142	3,598,284	3,454,085	444,849	1,442,800	2,663,016	2,726,191
1885	8,431,808	3,980,502	3,631,108	3,587,270	.....	1,256,880	2,183,770	2,692,055
1886	8,534,708	3,873,605	3,651,100	4,051,823	689,878	1,547,936	2,561,372	2,983,208
1887	9,752,325	4,180,109	4,123,120	4,910,248	1,172,549	2,126,166	3,394,250	3,830,578
1888	8,667,567	4,881,257	3,962,264	4,899,030	1,039,314	2,587,897	4,372,580	3,464,652
1889	9,472,578	4,656,261	3,485,536	5,422,967	1,380,632	2,577,978	4,389,281	2,853,104
1890	11,201,874	5,540,795	3,675,179	6,063,586	2,623,783	3,569,989	5,057,235	5,136,689
1891	10,272,274	5,196,365	3,271,387	6,948,867	2,659,764	4,368,819	4,529,267	5,734,543
1892	[2]12,418,634	6,063,943	3,545,052	7,519,192	2,889,115	[2]3,936,977	4,787,388	6,234,294

[1] 29 months.

[2] Figures as reported, not verified in this office.

TABLE 132.—AGGREGATE TONNAGE CARRIED BETWEEN ALL POINTS BY VARIOUS IMPORTANT RAILWAYS DURING EACH YEAR, ETC.—Continued.

Year.	Freight (tons carried).					
	Denver and Rio Grande R. R.	Texas and Pacific Rwy.	Chesapeake and Ohio Rwy.	Louisville and Nashville R. R.	Richmond and Danville R. R.	Mobile and Ohio Rwy.
1866	.....	.....	.....	.....	68,121	.....
1867	.....	.....	68,537	222,937	81,638	.....
1868	.....	.....	82,544	243,918	88,679	.....
1869	.....	.....	.....	317,208	99,323	.....
1870	.....	.....	86,585	438,413	120,959	258,409
1871	.....	.....	99,596	535,711	161,122	333,659
1872	46,212	.....	115,473	716,753	174,919	437,307
1873	59,229	.....	248,226	947,468	225,446	347,488
1874	55,430	88,343	306,465	1,348,214	197,920	343,488
1875	57,969	138,596	359,569	1,212,160	221,017	305,243
1876	78,794	254,288	415,452	.....	227,650	223,106
1877	132,838	355,789	471,660	1,995,044	241,081	251,427
1878	.....	388,967	588,066	2,644,007	235,962	275,017
1879	.....	379,125	686,526	2,282,180	308,060	246,898
1880	651,833	525,093	941,123	2,139,153	372,226	333,553
1881	1,136,311	715,204	1,435,597	3,286,000	710,706	364,431
1882	1,151,330	1,049,262	1,367,469	6,533,317	1,210,267	345,755
1883	1,416,426	946,219	1,748,676	7,302,145	1,311,624	357,493
1884	1,093,841	1,056,726	1,579,106	7,969,776	1,319,585	408,889
1885	1,207,897	952,017	1,849,938	8,365,521	1,451,646	429,141
1886	1,352,252	1,099,304	2,174,523	8,942,102	1,500,164	484,549
1887	1,694,207	1,152,858	2,414,303	11,257,812	1,671,687	777,298
1888	1,662,118	1,192,727	2,485,322	13,675,170	1,764,283	1,205,279
1889	353,469	1,263,895	2,663,350	9,212,322	2,675,690	1,051,335
1890	1,833,874	1,617,201	3,760,577	10,306,013	3,617,723	1,142,708
1891	2,093,660	1,554,857	4,166,102	10,367,379	2,766,530	1,230,029
1892	1,904,255	1,545,328	.....	[1]12,149,938	5,359,408	1,193,641

[1] Figures as reported, not verified in this office.

TABLE 133.—GROSS FREIGHT EARNINGS EXCLUSIVE OF RECEIPTS FROM ELEVATORS, WHARVES, STOCK YARDS, ETC., OF VARIOUS IMPORTANT RAILWAYS, DURING EACH YEAR FROM 1852 FOR WHICH SUCH DATA CAN BE PROCURED.

Year.	Freight (gross earnings).							
	Boston and Albany R. R.	Fitchburg R. R.	Central Vermont R. R.	New York and New England R. R.	New York, New Haven and Hartford R. R.	Canadian Pacific Rwy.	Delaware, Lackawanna and Western R. R.	New York Ontario and Western R. R.
1852	.....	.....	.....	.....	$125,092	.....	$1,417,196	.....
1853	.....	.....	.....	.....	166,614	.....	1,614,813	.....
1854	.....	.....	.....	.....	214,354	.....	1,788,658	.....
1855	.....	.....	.....	.....	263,904	.....	1,485,832	.....
1856	.....	.....	.....	.....	340,017	.....	2,466,797	.....
1857	.....	.....	.....	.....	333,381	.....	2,476,010	.....
1858	$3,410,893	$639,592	$1,209,857	$557,761	953,965	.....	3,414,644	.....
1860	3,861,052	736,796	1,319,934	332,926	1,138,311	.....	2,201,115	.....
1870	3,265,481	[2]584,360	1,439,288	[2]264,823	[3]1,475,956	.....	[4]3,826,002	$166,470
1871	4,747,180	755,837	1,529,111	364,488	[3]1,176,772	.....	3,095,573	216,989
1872	5,846,768	769,936	.....	.....	1,445,952	.....	4,266,081	600,826
1873	6,221,183	788,554	.....	404,473	1,468,578	.....	5,507,388	971,275
1874	5,283,599	932,030	[1]4,471,489	449,108	1,331,527	.....	4,629,862	781,911
1875	4,328,131	909,629	.....	447,261	1,431,498	.....	5,422,850	393,355
1876	3,886,132	1,045,780	.....	447,385	1,317,646	.....	3,418,245	354,207
1877	3,790,781	1,106,161	1,858,064	477,400	1,326,707	.....	2,954,636	371,991
1878	3,721,436	1,091,516	1,531,486	505,809	1,309,778	.....	3,128,974	371,850
1879	3,588,839	1,205,954	1,599,364	1,058,722	1,492,261	.....	4,695,694	353,530
1880	4,530,913	1,496,459	1,993,378	1,250,527	1,634,092	.....	8,871,475	377,926
1881	4,328,906	1,658,139	1,752,740	1,420,758	1,903,703	$231,378	10,426,756	469,156
1882	3,964,133	1,521,576	1,806,826	1,837,890	2,065,856	890,385	9,634,910	605,479
1883	4,472,180	1,635,422	1,885,526	2,114,524	2,507,623	3,112,932	12,688,812	754,279
1884	4,090,302	1,775,248	1,664,753	1,955,686	2,440,919	3,410,365	12,382,015	1,067,808
1885	3,705,929	1,712,162	1,643,503	1,850,266	2,423,594	4,881,865	12,149,082	1,125,063
1886	4,299,063	2,078,446	1,663,380	2,262,479	2,795,241	6,112,379	14,647,355	938,285
1887	4,493,588	2,707,544	2,354,355	2,485,913	2,928,001	6,924,130	18,317,758	907,247
1888	4,458,688	3,164,311	2,644,267	3,033,397	2,953,645	7,619,758	16,608,146	1,218,326
1889	4,350,172	3,508,281	2,621,988	3,189,904	4,109,128	8,095,114	15,004,531	1,291,097
1890	4,446,586	3,880,252	3,032,887	3,445,385	4,489,611	9,354,480	15,293,486	1,455,994
1891	4,360,007	4,330,784	.....	3,666,545	4,557,071	11,643,641	15,790,589	2,013,685
1892	4,722,856	4,591,008	.....	3,601,462	4,900,936	13,249,454	16,418,334	2,456,048

[1] 2 years ending July 1, 1874. [2] 10 months. [3] 15 months. [4] 14 months.

TABLE 133.—GROSS FREIGHT EARNINGS EXCLUSIVE OF RECEIPTS FROM ELEVATORS, WHARVES, STOCK YARDS, ETC.—Continued.

Year.	Freight (gross earnings).							
	Philadelphia and Reading R. R.	Lehigh Valley R. R.	New York Central and Hudson River R. R.	Lake Shore and Michigan Southern Rwy.	Michigan Central R. R.	New York, Chicago and St. Louis Rwy.	Cleveland, Cincinnati, Chicago and St. Louis Rwy.	New York, Lake Erie and Western R. R.
1852....	$2,289,641	.....	.....	.....	.....	.....	.....	$1,863,1[illegible]
1853....	2,435,306	.....	.....	.....	.....	.....	.....	2,537,[illegible]
1854....	3,485,449	.....	$2,949,966	.....	.....	.....	.....	3,659,[illegible]
1855....	3,989,946	.....	3,755,320	.....	.....	.....	.....	3,655,[illegible]
1856....	3,591,157	.....	5,052,059	.....	.....	.....	.....	4,545,[illegible]
1857....	2,742,909	.....	5,275,876	.....	.....	.....	.....	4,097,[illegible]
1858....	2,201,608	.....	4,244,639	.....	.....	.....	.....	3,843,[illegible]
1859....	2,358,573	.....	4,049,530	.....	.....	.....	.....	3,195,[illegible]
1860....	2,927,778	.....	4,943,638	.....	.....	.....	.....	3,884,[illegible]
1861....	2,517,344	.....	5,557,019	.....	.....	.....	.....	4,251,[illegible]
1862....	3,402,836	.....	7,972,304	.....	$1,559,661	.....	.....	6,642,[illegible]
1863....	5,570,343	.....	9,449,554	.....	1,983,757	.....	.....	8,432,[illegible]
1864....	8,157,551	.....	10,685,672	.....	2,073,275	.....	.....	9,855,[illegible]
1865....	9,792,569	.....	11,000,058	.....	2,233,529	.....	.....	10,728,[illegible]
1866....	9,667,236	.....	12,017,532	.....	2,208,592	.....	.....	11,611,[illegible]
1867....	7,970,429	.....	11,993,008	.....	2,285,522	.....	.....	11,294,[illegible]
1868....	7,667,947	$4,270,650	12,479,950	.....	2,480,974	.....	$1,843,120	10,729,[illegible]
1869....	9,925,863	4,482,033	14,066,386	.....	2,755,200	.....	2,090,544	12,585,[illegible]
1870....	8,189,315	5,462,607	14,489,217	$8,746,126	2,634,439	.....	2,269,038	11,985,[illegible]
1871....	10,593,936	4,825,667	14,470,402	10,341,218	3,072,558	.....	2,873,536	12,867,[illegible]
1872....	10,201,145	5,513,439	16,259,647	12,824,862	3,398,346	.....	3,439,999	14,509,[illegible]
1873....	12,707,271	6,202,892	19,616,018	14,192,399	3,852,933	.....	3,735,895	15,015,[illegible]
1874....	12,301,215	6,224,927	20,348,725	11,918,850	4,447,839	.....	3,148,197	13,780,[illegible]
1875....	10,662,707	5,526,366	17,899,702	9,639,035	4,417,276	.....	2,647,225	12,287,[illegible]
1876....	9,658,183	6,221,740	17,593,265	9,405,629	4,158,887	.....	2,537,009	11,439,[illegible]
1877....	10,418,795	6,035,697	16,424,317	9,476,608	2,516,686	.....	2,453,804	10,647,[illegible]
1878....	9,897,718	5,117,053	19,045,830	10,048,952	4,646,248	.....	2,601,785	11,914,[illegible]
1879....	11,013,718	5,500,023	18,270,250	11,288,261	4,986,988	.....	2,796,405	12,[illegible]
1880....	13,415,957	7,232,178	22,190,966	14,077,294	6,195,971	.....	3,328,209	14,291,[illegible]
1881....	14,756,547	8,805,347	20,736,750	12,659,987	5,675,731	.....	3,225,356	15,979,[illegible]
1882....	16,062,379	9,427,765	17,672,252	12,022,577	5,426,455	.....	3,159,417	14,642,[illegible]
1883....	21,675,654	9,387,201	20,142,433	12,480,094	9,472,365	2,000,562	3,068,717	17,212,[illegible]
1884....	22,308,523	8,058,711	16,434,983	9,358,816	7,620,887	2,879,309	2,518,873	15,772,[illegible]
1885....	20,971,666	7,696,778	14,702,538	9,031,417	6,906,207	2,909,246	2,471,863	13,813,[illegible]
1886....	22,103,555	7,775,705	18,476,532	10,329,625	7,938,572	3,522,548	2,877,157	16,804,[illegible]
1887....	15,967,363	8,596,172	21,143,098	12,547,923	9,309,987	4,471,697	3,170,563	18,466,[illegible]
1888....	15,099,105	7,615,665	20,259,352	12,197,661	9,365,073	4,767,223	3,150,474	20,359,[illegible]
1889....	14,717,172	11,498,017	19,821,550	11,270,451	8,519,068	4,202,586	2,971,110	20,02[illegible]
1890....	16,328,628	12,981,104	21,515,907	13,433,192	9,307,029	5,122,149	7,319,921	22,50[illegible]
1891....	16,714,855	13,971,815	21,392,168	12,988,400	9,389,985	5,534,574	8,337,130	23,22[illegible]
1892....	.....	.....	26,777,687	14,617,655	10,628,916	5,823,882	9,128,417	24,858,[illegible]

TABLE 133.—GROSS FREIGHT EARNINGS EXCLUSIVE OF RECEIPTS FROM ELEVATORS, WHARVES, STOCK YARDS, ETC.—Continued.

Year.	Freight (gross earnings).							
	New York, Pennsylvania and Ohio R. R.	Chicago and Erie R. R.	Pennsylvania R. R.	Pittsburg Fort Wayne and Chicago Rwy.	Pittsburg, Cincinnati and St. Louis Rwy.	Chicago, St. Louis and Pittsburg Rwy.	Pittsburg, Cincinnati, Chicago and St. Louis Rwy.	Baltimore and Ohio R. R.
1855	.....	.....	$2, 805, 306	.....	.....	.....	.....	.....
1856	.....	.....	3, 244, 292	.....	.....	.....	.....	.....
1857	.....	.....	3, 374, 041	$657, 686	.....	.....	.....	.....
1858	.....	.....	3, 536, 206	667, 296	.....	.....	.....	.....
1859	.....	.....	3, 656, 111	964, 133	.....	.....	.....	.....
1860	.....	.....	4, 191, 784	1, 309, 714	.....	.....	.....	.....
1861	.....	.....	5, 398, 026	1, 905, 707	.....	.....	.....	$2, 324, 367
1862	.....	.....	7, 668, 420	2, 401, 630	.....	.....	.....	2, 712, 362
1863	.....	.....	8, 602, 262	3, 341, 034	.....	.....	.....	4, 177, 139
1864	.....	.....	10, 361, 999	4, 143, 504	.....	.....	.....	5, 963, 110
1865	.....	.....	11, 193, 565	4, 739, 068	.....	.....	.....	6, 704, 337
1866	.....	.....	11, 709, 294	4, 707, 582	.....	.....	.....	6, 516, 261
1867	.....	.....	11, 832, 300	4, 483, 616	.....	.....	.....	6, 224, 376
1868	$3, 702, 860	.....	12, 882, 165	5, 231, 857	$1, 483, 454	.....	.....	6, 619, 864
1869	4, 022, 915	.....	12, 932, 657	5, 020, 874	1, 690, 382	$2, 299, 595	.....	7, 999, 011
1870	3, 318, 902	.....	12, 793, 160	4, 892, 326	1, 880, 024	.....	.....	7, 471, 007
1871	.....	.....	14, 052, 305	5, 581, 051	2, 320, 076	2, 852, 014	.....	9, 133, 518
1872	4, 126, 479	.....	16, 856, 891	6, 909, 306	6, 863, 733	3, 201, 585	.....	9, 738, 885
1873	4, 134, 844	.....	19, 608, 555	6, 716, 399	2, 725, 024	3, 298, 011	.....	10, 658, 999
1874	3, 738, 243	.....	17, 227, 504	5, 841, 961	2, 653, 317	2, 691, 990	.....	10, 175, 432
1875	2, 913, 581	.....	15, 651, 741	5, 430, 511	2, 317, 645	2, 522, 593	.....	8, 900, 940
1876	2, 729, 627	.....	14, 539, 785	5, 266, 172	2, 193, 116	2, 328, 911	.....	7, 957, 885
1877	2, 911, 543	.....	14, 642, 109	4, 790, 424	2, 191, 782	2, 293, 411	.....	6, 897, 241
1878	2, 764, 781	.....	15, 904, 501	5, 600, 557	2, 270, 836	2, 379, 661	.....	7, 363, 110
1879	3, 084, 716	.....	17, 016, 989	6, 066, 593	2, 643, 714	2, 815, 910	.....	7, 693, 794
1880	3, 945, 494	.....	20, 234, 046	7, 395, 452	3, 217, 078	3, 521, 559	.....	9, 849, 891
1881	4, 057, 264	.....	32, 572, 448	7, 785, 730	2, 884, 041	3, 625, 508	.....	9, 407, 337
1882	4, 315, 028	.....	34, 829, 240	7, 464, 057	2, 927, 998	3, 636, 670	.....	8, 634, 169
1883	.....	.....	36, 400, 551	7, 432, 479	3, 243, 667	3, 781, 107	.....	9, 559, 555
1884	.....	$1, 028, 730	30, 366, 227	6, 111, 217	2, 706, 212	2, 902, 433	.....	9, 424, 494
1885	.....	927, 004	30, 895, 748	5, 500, 653	2, 793, 620	3, 159, 887	.....	8, 003, 037
1886	.....	896, 689	34, 623, 877	6, 249, 610	3, 504, 742	3, 448, 447	.....	7, 895, 976
1887	.....	1, 497, 819	38, 080, 823	7, 940, 113	4, 327, 355	4, 314, 563	.....	15, 780, 460
1888	.....	1, 731, 648	39, 147, 056	6, 671, 751	5, 414, 645	4, 086, 640	.....	14, 382, 285
1889	.....	1, 570, 293	39, 935, 701	7, 443, 913	4, 961, 085	3, 895, 286	.....	14, 311, 052
1890	.....	2, 003, 954	45, 632, 959	8, 434, 588	5, 877, 749	4, 895, 496	.....	16, 820, 156
1891	.....	1, 646, 426	45, 085, 147	.....	.....	.....	$11, 300, 325	16, 475, 903
1892	.....	2, 202, 798	47, 619, 280	.....	.....	.....	12, 328, 623	17, 742, 046

Year.	Freight (gross earnings).							
	Baltimore and Ohio Southwestern R. R.	Ohio and Mississippi Rwy.	Cincinnati, Hamilton, and Dayton R. R.	Wabash R. R.	Louisville, New Albany and Chicago Rwy.	Chicago and Grand Trunk Rwy.	Chicago, Milwaukee and St. Paul Rwy.	Chicago and Northwestern Rwy.
1865	.....	.....	.....	.....	.....	.....	.....	$4, 448, 599
1866	.....	.....	.....	.....	.....	.....	.....	5, 393, 191
1867	.....	.....	.....	.....	.....	.....	.....	6, 649, 590
1868	.....	$1, 586, 819	$727, 276	.....	.....	.....	$4, 266, 284	8, 266, 809
1869	.....	1, 567, 498	696, 692	.....	.....	.....	4, 909, 525	9, 291, 478
1870	.....	1, 789, 140	493, 342	.....	.....	.....	5, 148, 356	8, 187, 597
1871	.....	1, 883, 780	544, 150	.....	.....	.....	4, 444, 568	7, 700, 808
1872	.....	2, 164, 499	592, 215	.....	.....	.....	4, 566, 991	7, 521, 275
1873	.....	2, 589, 361	590, 161	.....	.....	.....	6, 421, 369	8, 614, 260
1874	.....	2, 329, 745	574, 847	.....	.....	.....	6, 137, 152	10, 270, 519
1875	.....	1, 949, 519	531, 980	.....	.....	.....	5, 690, 568	8, 837, 828
1876	.....	.....	509, 696	.....	.....	.....	5, 384, 231	9, 001, 178
1877	.....	[1] 1, 295, 832	521, 954	.....	.....	.....	5, 627, 906	8, 415, 599
1878	.....	1, 908, 809	492, 643	$3, 514, 999	.....	.....	5, 750, 497	10, 016, 921
1879	.....	2, 522, 338	505, 161	.....	.....	.....	6, 850, 755	9, 924, 030
1880	.....	2, 686, 608	1, 493, 977	.....	$618, 778	1, 086, 849	8, 884, 227	11, 995, 975
1881	.....	2, 949, 350	1, 721, 790	.....	710, 490	1, 182, 106	11, 844, 796	14, 414, 151
1882	.....	2, 099, 345	1, 748, 872	.....	1, 022, 292	1, 419, 726	14, 002, 335	17, 525, 134
1883	.....	2, 631, 748	1, 855, 381	.....	1, 142, 329	1, 989, 757	16, 365, 354	16, 894, 352
1884	.....	2, 379, 626	1, 772, 569	.....	1, 087, 240	2, 155, 807	16, 128, 984	17, 677, 866
1885	.....	2, 063, 548	1, 657, 670	.....	1, 185, 286	1, 944, 598	17, 101, 742	16, 917, 394
1886	.....	2, 227, 255	1, 668, 424	.....	1, 343, 564	2, 900, 990	17, 858, 294	17, 503, 244
1887	.....	2, 407, 825	2, 030, 879	.....	1, 627, 217	2, 444, 932	17, 742, 142	19, 329, 484
1888	.....	2, 268, 672	2, 062, 668	4, 537, 282	1, 570, 822	2, 382, 385	16, 933, 042	19, 208, 436
1889	$1, 135, 195	2, 218, 962	2, 036, 071	4, 502, 257	1, 612, 300	2, 244, 049	17, 297, 317	18, 018, 182
1890	667, 433	2, 433, 555	2, 183, 089	9, 258, 053	1, 718, 962	2, 843, 656	18, 337, 010	19, 864, 152
1891	1, 875, 221	2, 332, 248	2, 317, 739	8, 860, 819	1, 871, 460	2, 591, 371	19, 012, 159	19, 980, 910
1892	1, 678, 800	2, 467, 779	2, 676, 120	9, 800, 969	2, 139, 357	2, 749, 298	23, 241, 421	23, 320, 914

[1] 8 months.

TABLE 133.—GROSS FREIGHT EARNINGS EXCLUSIVE OF RECEIPTS FROM ELEVATORS, WHARVES, STOCK YARDS, ETC.—Continued.

Year.	Freight (gross earnings).							
	Chicago, Burlington and Quincy R. R.	Chicago, Rock Island and Pacific Rwy.	Chicago and Alton R. R.	Illinois Central R. R.	Wisconsin Central R. R.	Northern Pacific R. R.	Union Pacific Rwy.	Atchison Topeka and Santa Fe R. R.
1862			[1]$215,467	$1,808,998				
1863	$2,542,827	$1,034,850	1,120,448	2,500,960				
1864	2,979,016	1,448,965	1,479,659	3,706,633				
1865	3,919,860	2,222,309	2,155,152	4,040,587				
1866	4,204,741	2,016,306	2,309,499	3,945,865				
1867	4,124,693	2,428,824	2,430,008	4,490,521				
1868	4,216,911	2,934,504	2,953,629	4,172,841			$3,458,104	
1869	4,758,864	3,575,916	3,066,144	4,602,817				
1870	4,514,629	3,587,002	3,312,068	4,609,890			3,058,515	$119
1871	4,949,684	4,023,272	3,740,203	4,737,975			3,629,489	256,
1872	5,299,874	4,213,372	3,607,643	4,305,617	$68,214		4,768,419	
1873	8,035,349	4,597,983	3,897,462	4,148,901	98,864	$237,154	5,516,908	
1874	8,445,910	5,003,001	3,446,881	3,986,691	378,998	251,325	5,064,731	
1875	8,502,617	5,292,412	3,173,531	3,619,239	420,038	259,318	6,641,512	
1876		5,121,557	3,541,346	3,190,448			7,304,123	
1877	9,554,544	5,253,779	3,067,769	3,032,337	483,996	568,780	7,597,681	
1878	11,152,179	5,575,733	3,409,510	3,174,160	496,018	779,616	8,295,878	
1879	11,650,623	6,929,926	4,242,791	3,262,526	596,544	701,696	8,092,414	
1880	16,054,197	8,035,165	5,808,484	3,671,373	815,417	1,585,514	15,218,507	
1881	16,595,819	8,690,480	5,546,870	5,875,649	960,045	2,207,299	17,063,127	
1882	15,711,510	9,687,097	5,948,123	5,918,152	937,132	3,909,423	15,402,167	
1883	19,514,161	7,928,237	6,197,681	8,664,959	924,699	5,409,080	14,268,293	
1884	18,514,431	8,056,316	6,073,675	7,902,043	916,262	7,865,367	11,860,311	
1885	19,565,853	8,144,142	5,432,633	8,145,920	990,258	7,446,268	12,070,749	
1886	19,367,935	7,713,659	5,392,059	8,332,151	1,012,369	8,189,615	12,230,271	
1887	18,675,655	8,037,452	6,070,639	9,034,863	1,358,246	8,730,547	13,436,495	
1888	15,660,444	8,975,020	5,672,808	8,246,163	1,419,176	10,127,461	13,700,499	
1889	17,222,739	8,773,829	4,952,952	8,910,464	2,642,711	12,071,095	12,849,983	
1890	19,608,608	12,293,176	5,345,620	10,004,754	3,437,206	15,447,885	14,575,124	
1891	16,495,602	11,240,988	4,672,880	12,160,000	3,743,347	17,388,955	13,979,227	
1892	21,444,246	12,525,794	5,472,271	[2]12,809,973	[2]3,987,833	[2]17,220,705	14,251,989	

[1] 2½ months. [2] As reported; not verified in this office.

Year.	Freight (gross earnings).					
	Denver and Rio Grande R. R.	Texas and Pacific Rwy.	Chesapeake and Ohio Rwy.	Louisville and Nashville R. R.	Richmond and Danville R. R.	Mobile and Ohio R. R.
1862				$403,231		
1863				831,659		
1864				1,110,106		
1865				1,311,342		[2]$894,541
1866				1,426,890	$381,773	1,433,
1867				1,152,477	399,500	1,400,
1868			$316,985	1,215,703	863,001	1,179,
1869				1,353,795	375,193	1,284,
1870			360,481	1,723,644	405,701	1,709,
1871			421,904	1,847,089	476,535	
1872			[1]893,201	2,015,266	514,648	2,088,
1873	$200,129	$231,557	710,385	3,135,798	613,872	2,074,
1874	240,846	572,473	950,312	3,172,550	602,130	1,838,
1875	213,631	729,866	993,862	2,615,936	608,793	1,423,
1876		1,113,044	1,177,942		589,518	1,493,
1877	520,259	1,449,968	1,285,184	3,455,704	612,637	1,614,
1878		1,660,645	1,527,151	3,723,643	669,713	1,622,
1879		1,582,926	1,444,766	3,627,925	801,247	1,464,
1880	2,411,457	2,053,018	1,993,812	5,134,225	1,275,899	1,772,
1881	4,332,150	2,408,063	2,658,361	7,407,408	1,437,016	1,791,
1882	4,412,186	3,806,944	2,600,539	8,050,339	2,318,123	1,617,
1883	5,351,912	4,567,043	3,081,032	8,786,574	2,606,225	1,716,
1884	4,232,447	4,037,484	2,728,468	9,233,671	2,511,760	1,713,
1885	4,580,491	3,868,716	2,639,569	8,703,795	2,669,758	1,336,
1886	5,003,160	4,282,448	3,319,371	8,655,860	2,646,434	1,671,
1887	5,772,172	4,186,782	3,504,421	10,254,483	2,716,699	1,702,
1888	5,621,209	4,384,699	3,545,909	11,594,266	3,395,859	1,967,
1889	5,243,879	4,369,922	3,296,801	7,715,865	6,323,713	2,099,
1890	5,743,750	5,065,557	5,385,402	8,590,267	7,311,908	2,333,
1891	6,189,360	4,857,269	5,963,516	8,730,898	6,696,395	2,657,
1892	6,017,044	4,748,077		[2]9,965,266	[2]8,334,433	[2]2,354,

[1] Eastern division. [2] As reported; not verified in this office. [3] 7½ months.

CHANGES IN LOCAL RATES.

Rates charged between points located upon the same road are designated as "local rates." Numerous causes have operated to reduce the charges upon traffic carried at such rates; principal among these have been the reductions in freight classifications and the operation of the act to regulate commerce. Prior to April, 1887, local rates were in many instances upon a higher basis than those charged between terminals, the latter, in the majority of cases, being competitive points and having the benefit of competitive rates. When the act referred to became effective it was found that the majority of these rates were at variance with the fourth section, known as the long and short haul clause of the act. A very general revision of the tariffs covering the local traffic therefore became necessary, which has resulted in large reductions to local points.

Aside from these causes there has been a gradual downward tendency of rates of this character, and there are few roads throughout the United States which within the last ten or fifteen years have not reduced their local rates from 10 to 50 per cent. Considerable data have been collected for the purpose of showing the extent of these changes upon roads in various sections of the United States, and will here follow. The most satisfactory form of presenting these changes would be to show the rates upon the principal commodities carried by the different roads for which tables are given. It has been, however, impossible to do this through failure to obtain the classifications applying exclusively to local traffic, and the comparisons are, therefore, necessarily confined to the rates of the respective classes.

TABLE 134.—COMPARISON OF LOCAL MILEAGE RATES CHARGED BY MAINE CENTRAL RAILROAD DURING 1872 AND 1893.

Distances.	Classes (rates in cents per 100 pounds).							
	1.		2.		3.		4.	
	1872.	1893.	1872.	1893.	1872.	1893.	1872.	1893.
For 50 miles	33	26	22	18	12½	12½	9	9
For 100 miles	42	34	32	26	18	18	15	15
For 150 miles	49	40	39	31	22	22	19	19
For 200 miles	54	45	44	35	25	25	22	22

TABLE 135.—COMPARISON OF FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF THE ARTICLES NAMED FROM BOSTON, MASS., TO LOCAL STATIONS IN MASSACHUSETTS DURING 1868, 1874, 1881, 1887, AND 1893.

[Compiled from tariffs of Boston and Albany Railroad.]

[Cents per 100 pounds.]

Articles.	From Boston, Mass., to—																											
	South Framingham, Mass.										Westboro, Mass.										Worcester, Mass.							
	1868.	1874.		1881.		1887.		1893.			1868.	1874.		1881.		1887.		1893.			1868.	1874.		1881.		1887.		1893.	
		C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.			C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.			C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.
Bacon	12	11	11	8	8	5	5	5	5		14	12	12	9	9	6	6	6	6		15	15	15	11	11	7	7	7	7
Boots and shoes	12	11	11	9	9	9	9	9	9		14	12	12	10	10	10	10	10	10		15	15	15	12	12	12	12	12	12
Coffee	12	11	11	6	6	5	5	5	5		14	12	12	8	8	6	6	6	6		15	15	15	9	9	7	7	7	7
Cutlery	12	11	11	9	9	8	8	8	8		14	12	12	10	10	9	9	9	9		15	15	15	12	12	11	11	11	11
Dry goods	12	11	11	9	9	9	9	9	9		14	12	12	10	10	10	10	10	10		15	15	15	12	12	12	12	12	12
Glassware	12	11	11	9	9	8	8	6	8		14	12	12	10	10	9	9	8	9		15	15	15	12	12	11	11	9	11
Starch	12	11	11	6	6	5	5	5	5		14	12	12	8	8	6	6	6	6		15	15	15	9	9	7	7	7	7
Twine	12	11	11	9	9	9	9	5	9		14	12	12	10	10	10	10	6	10		15	15	15	12	12	12	12	7	12
Crockery, in hogsheads or casks	9	8	8	6	6	5	5	5	5		11	9	9	8	8	6	6	6	6		12	10	10	9	9	7	7	7	7
Flour	9	8	8	5	6	5	5	5	5		11	9	9	6	8	6	6	6	6		12	10	10	7	9	7	7	7	7
Rice	9	9	9	6	6	5	5	5	5		11	11	11	8	8	6	6	6	6		12	12	12	9	9	7	7	7	7
Soap	9	9	9	8	8	5	5	5	5		11	11	11	9	9	6	6	6	6		12	12	12	11	11	7	7	7	7
Vinegar	9	9	9	6	6	5	6	5	6		11	11	11	8	8	6	8	6	8		12	12	12	9	9	7	9	7	9
Axle grease	8	8	8	6	6	5	5	5	5		9	9	9	8	8	6	6	6	6		10	10	10	9	9	7	7	7	7
Cement	8	6	8	5	6	5	5	5	5		9	7	9	6	8	6	6	6	6		10	9	10	7	9	7	7	7	7
Lard	9	8	8	6	6	5	5	5	5		9	9	9	8	8	6	6	6	6		10	10	10	9	9	7	7	7	7
Nails	8	8	8	6	6	5	5	5	5		9	9	9	8	8	6	6	6	6		10	10	10	9	9	7	7	7	7
Sugar, in hogsheads	8	8	9	6	8	5	5	5	5		9	9	11	8	9	6	6	6	6		10	10	12	9	11	7	7	7	7
Coal	7	6	9	5	8	5	9	5	9		8	7	11	6	9	6	10	6	10		9	9	12	7	11	7	12	7	12
Plaster	7	6	8	5	6	5	5	5	5		8	7	9	6	8	6	6	6	6		9	9	10	7	9	7	7	7	7

Articles.	From Boston, Mass, to—																											
	Springfield, Mass.										North Adams, Mass.										Brookfield, Mass.							
	1868.	1874.		1881.		1887.		1893.			1868.	1874.		1881.		1887.		1893.			1868.	1874.		1881.		1887.		1893.	
		C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.			C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.			C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.
Bacon	25	24	24	17	17	12	12	12	12		38	38	38	27	27	15	15	15	15		21	18	18	13	13	9	9	9	9
Boots and shoes	25	24	24	20	20	20	20	20	20		38	38	38	31	31	30	30	30	30		21	18	18	15	15	15	15	15	15
Coffee	25	24	24	14	14	12	12	12	12		38	38	38	23	23	15	15	15	15		21	18	18	11	11	9	9	9	9
Cutlery	25	24	24	20	20	17	17	17	17		38	38	38	31	31	27	27	27	27		21	18	18	15	15	13	13	13	13
Dry goods	25	24	24	20	20	20	20	20	20		38	38	38	31	31	30	30	30	30		21	18	18	15	15	15	15	15	15
Glassware	25	24	24	20	20	17	17	14	17		38	38	38	31	31	27	27	22	27		21	18	18	15	15	13	13	11	13
Starch	25	24	24	14	14	12	12	12	12		38	38	38	23	23	15	15	15	15		21	18	18	11	11	9	9	9	9
Twine	25	24	24	20	20	20	20	12	20		38	38	38	31	31	30	30	15	30		21	18	18	15	15	15	15	9	15
Crockery, in hogsheads or casks	21	17	17	14	14	12	12	12	12		32	25	25	23	23	15	15	15	15		17	13	13	11	11	9	9	9	9
Flour	21	17	17	12	14	12	12	12	12		32	25	25	19	23	15	15	15	15		17	13	13	9	11	9	9	9	9
Rice	21	21	21	14	14	12	12	12	12		32	32	32	23	23	15	15	15	15		17	16	16	11	11	9	9	9	9
Soap	21	21	21	17	17	12	12	12	12		32	32	32	27	27	15	15	15	15		17	16	16	13	13	9	9	9	9
Vinegar	21	21	21	14	14	12	14	12	14		32	32	32	23	23	15	22	15	22		17	16	16	11	11	9	11	9	11
Axle grease	18	21	21	14	14	12	12	12	12		25	25	25	23	23	15	15	15	15		14	13	13	11	11	9	9	9	9
Cement	18	14	17	12	14	12	12	12	12		25	21	25	19	23	15	15	15	15		14	11	13	9	11	9	9	9	9
Lard	18	17	17	14	14	12	12	12	12		25	25	25	23	23	15	15	15	15		14	13	13	11	11	9	9	9	9
Nails	18	17	17	14	14	12	12	12	12		25	25	25	23	23	15	15	15	15		14	13	13	11	11	9	9	9	9
Sugar	18	17	21	14	17	12	12	12	12		25	25	32	23	27	15	15	15	15		14	13	16	11	13	9	9	9	9
Coal	15	14	21	12	17	12	20	12	20		21	21	32	19	27	15	30	15	30		12	11	16	9	13	9	15	9	15
Plaster	15	14	17	12	14	12	12	12	12		21	21	25	19	23	15	15	15	15		12	11	13	9	11	9	9	9	9

TABLE 135.—COMPARISON OF FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF THE ARTICLES NAMED FROM BOSTON, MASS., ETC.—Continued.

Articles.	From Boston, Mass., to—																							
	Pittsfield, Mass.								Chatham, N. Y.								East Albany, N. Y.							
	1868.	1874.		1881.		1887.		1893.		1868.	1874.		1881.		1887.		1893.			1868.	1874.		1881.		1887.		1893.	
		C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.		C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.			C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.	C. L.	L. C. L.
Bacon	35	33	33	24	24	15	15	15	15	42	38	38	27	27	15	15	15	15		45	42	42	30	30	15	15	15	15
Boots and shoes	35	33	33	28	28	28	28	28	28	42	38	38	32	32	30	30	30	30		45	42	42	35	35	30	30	30	30
Coffee	35	33	33	20	20	15	15	15	15	42	38	38	23	23	15	15	15	15		45	42	42	25	25	15	15	15	15
Cutlery	35	33	33	28	28	24	24	24	24	42	38	38	32	32	27	27	27	27		45	42	42	35	35	27	27	27	27
Dry goods	35	33	33	28	28	28	28	28	28	42	38	38	32	32	30	30	30	30		45	42	42	35	35	30	30	30	30
Glassware	35	33	33	28	28	24	24	20	24	42	38	38	32	32	27	27	22	27		45	42	42	35	35	27	27	22	27
Starch	35	33	33	20	20	15	15	15	15	42	38	38	23	23	15	15	15	15		45	42	42	25	25	15	15	15	15
Twine	35	33	33	28	28	28	15	28	28	42	38	38	32	32	30	30	15	30		45	42	42	35	35	30	30	15	30
Crockery, in hogsheads or casks	29	23	23	20	20	15	15	15	15	35	27	27	23	23	15	15	15	15		37	30	30	25	25	15	15	15	15
Flour	29	23	23	16	20	15	15	15	15	35	27	27	18	23	15	15	15	15		37	30	30	20	35	15	15	15	15
Rice	29	29	29	20	20	15	15	15	15	35	33	33	23	23	15	15	15	15		37	36	36	25	25	15	15	15	15
Soap	29	29	29	24	24	15	15	15	15	35	33	33	27	27	15	15	15	15		37	36	36	30	30	15	15	15	15
Vinegar	29	29	29	20	20	15	20	15	20	35	33	33	23	23	15	22	15	22		37	36	36	25	25	15	22	15	22
Axle grease	23	23	23	20	20	15	15	15	15	29	27	27	23	23	15	15	15	15		30	30	30	25	25	15	15	15	15
Cement	23	19	23	16	20	15	15	15	15	29	22	27	18	23	15	15	15	15		30	24	30	20	25	15	15	15	15
Lard	23	23	23	20	20	15	15	15	15	29	27	27	23	23	15	15	15	15		30	30	30	25	25	15	15	15	15
Nails	23	23	23	20	20	15	15	15	15	29	27	27	23	23	15	15	15	15		30	30	30	25	25	15	15	15	15
Sugar	23	23	29	20	24	15	15	15	15	29	27	33	23	27	15	15	15	15		30	30	36	25	30	15	15	15	15
Coal	19	19	29	16	24	15	28	15	28	23	22	33	18	27	15	30	15	30		25	24	36	20	30	15	30	15	30
Plaster	19	19	23	16	20	15	15	15	15	23	22	27	18	23	15	15	15	15		25	24	30	20	25	15	15	15	15

TABLE 136.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE NEW YORK AND NEW ENGLAND RAILROAD FROM BOSTON TO STATIONS NAMED DURING 1886 AND 1893.

[1886, Local classification; 1893, Official classification.]

Distance.	From Boston, Mass., to—	Classes (rates in cents per 100 pounds).									
		1.		2.		3.		4.		5.	6.
		1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1893.	1893.
Miles.											
57	Thompson, Conn	18	18	15	15	12	12	10	10	9	8
74	Hampton, Conn	19	18	16	16	14	13	12	11	10	9
86	Willimantic Conn	21	20	19	18	15	15	13	13	11	9
95	Andover, Conn	23	22	19	19	15	16	13	14	12	10
101	Bolton, Conn	25	22	21	19	17	16	15	14	12	10
109	Rockville, Conn	26	24	23	21	18	17	16	15	13	11
109	Manchester, Conn	25	22	21	19	17	16	15	14	12	10
117	Hartford, Conn	25	22	21	19	17	16	15	14	12	10
126	New Britain, Conn	25	22	21	19	17	16	15	14	12	10
131	Plainville, Conn	28	22	24	19	19	16	16	14	12	10
133	Forestville, Conn	30	26	25	23	20	19	17	15	13	12
135	Bristol, Conn	30	26	25	23	21	19	17	15	13	12
150	Waterbury, Conn	30	27	25	24	21	20	17	15	14	13
174	Hawleyville, Conn	38	30	33	25	28	20	23	15	15	14
180	Danbury, Conn	38	30	33	25	28	20	23	15	15	14
185	Mill Plain, N. Y	40	30	35	25	29	20	24	15	15	14
190	Brewster, N. Y	40	30	35	25	29	20	24	15	15	14
196	Towners, N. Y	40	30	35	25	29	20	24	15	15	15
198	West Patterson, N. Y	40	30	35	25	29	20	24	15	15	15
207	Poughquag, N. Y	42	30	37	25	31	20	26	15	15	15
211	Stormville, N. Y	42	30	37	25	31	20	26	15	15	15
215	Hopewell, N. Y	42	30	37	25	31	20	26	15	15	15
228	Fishkill Landing, N. Y	45	30	40	25	34	20	28	15	15	15
229	Newburg, N. Y	49	30	43	25	36	20	36	15	15	15

TABLE 137.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE NEW YORK, LAKE ERIE AND WESTERN RAILROAD BETWEEN ELMIRA, N. Y., AND STATIONS NAMED DURING 1886 AND 1893.

Distance.	Between Elmira, N. Y., and—	Classes (rates in cents per 100 pounds).												
		1.		2.		3.		4.		A.	5.	B.	6.	C.
		1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.
Miles.														
73	Great Bend, Pa	21	21	17	18	13	15	10	10	8½	8½	7½	7½	6
81	Susquehanna, Pa	21	22	18	19	14	16	11	11	8½	9	7½	8	6
97	Deposit, N. Y	24	24	19	21	15	17	12	12	9	10	8	9	7
110	Hancock, N. Y	26	26	20	22	16	18	13	13	10	11	9	10	7
138	Callicoon, N. Y	28	28	22	24	17	20	15	15	11½	12½	10	11½	8
151	Narrowsburg, N. Y	28	29	22	25	17	21	15	15	11½	13	10	12	8
157	Mast Hope, Pa	30	30	23	26	18	21	16	16	12	13½	10	12½	8
163	Lackawaxen, Pa	30	30	23	26	18	21	16	16	12½	13½	10	12½	8
167	Shohola, Pa	31	31	24	27	19	22	17	17	12½	13½	10	12½	8
186	Port Jervis, N. Y	33	33	27	28	20	23	17	17	13	14	11	13	10
198	Otisville, N. Y	34	34	27	29	21	24	18	18	13½	14	11	13	10
203	Howells, N. Y	35	35	28	30	23	25	18	18	13½	15	12	13	11
207	Middletown, N. Y	35	35	28	30	22	25	18	18	13½	15	12	13	11
210	Hampton, N. Y	35	35	28	30	22	25	18	18	13½	15	12	13	11
214	Goshen, N. Y	35	35	28	30	22	25	18	18	13½	15	12	13	11
220	Greycourt, N. Y	37	35	29	30	23	25	18	18	14	15	13	13	12
224	Monroe, N. Y	37	35	29	30	23	25	18	18	14	15	13	13	12
226	Turners, N. Y	37	35	29	30	23	25	18	18	14	15	13	13	12
239	Sterlington, N. Y	38	35	30	30	23	25	18	18	14½	15	13½	13	12
246	Ramseys, N. J	39	35	31	30	23	25	18	18	15	15	14	13	12
250	Hohokus, N. J	40	35	32	30	23	25	18	18	15½	15	14½	13	12
252	Ridgewood, N. J	40	35	32	30	23	25	18	18	15½	15	14½	13	12
257	Paterson, N. J	40	35	32	30	23	25	18	18	15½	15	14½	13	12
262	Passaic, N. J	40	35	32	30	23	25	18	18	15½	15	15	13	12
264	Rutherford, N. J	40	35	32	30	23	25	18	18	15½	15	15	13	12
273	Jersey City, N. J	41	35	33	30	24	25	19	18	16	15	15	13	12
274	New York, N. Y	41	35	33	30	24	25	19	18	.....	15	.....	13	.....

NOTE.—Rates given for 1886 were subject to Joint Merchandise classification; those for 1893 to Official classification.

TABLE 138.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE NEW YORK, LAKE ERIE, AND WESTERN RAILROAD BETWEEN PATERSON, N. J., AND STATIONS NAMED DURING 1886 AND 1893.

[1886, Joint Merchandise classification; 1893, Official classification.]

Distance.	Between Paterson, N. J., and—	Classes (rates in cents per 100 pounds).												
		1.		2.		3.		4.		A.	5.	B.	6.	C.
		1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.
Miles.														
5	Ridgewood, N. J	8	8	7	7	6	6	4	5	8	8	2½	2½	2½
7	Hohokus, N. J	8	10	7	8	6	7	4	5	3½	3½	2½	3	2½
11	Ramseys, N. J	8	11	7	9	6	7	5	5	3½	4	3	3½	2½
15	Suffern, N. Y	10	12	8	10	7	8	5	6	4	4½	3½	4	3
18	Sterlington, N. Y	10	13	8	10	7	9	5	7	4	5	3½	4½	3
31	Turners, N. Y	14	14	11	11	10	10	7	7	4½	5½	4½	5	3½
37	Greycourt, N. Y	15	15	12	12	10	10	7	7	5½	6	4½	5	4
43	Goshen, N. Y	16	16	13	13	11	11	8	8	6½	6½	5½	5½	4½
47	Hampton, N. Y	17	17	13	14	11	12	8	8	6½	6½	5½	5½	4½
50	Middletown, N. Y	18	18	14	15	12	13	9	9	6½	7	5½	6	5½
71	Port Jervis, N. Y	21	21	17	18	13	15	10	10	8½	8½	7½	7½	6½
94	Lackawaxen, Pa	24	24	19	21	16	17	12	12	9	10	8	9	6½
160	Deposit, N. Y	30	30	23	26	18	21	16	16	12½	13½	10½	12	8½
176	Susquehanna, Pa	33	33	26	28	20	23	17	17	12½	14	11	13	10
184	Great Bend, Pa	33	33	27	28	20	23	17	17	13	14	11½	13	10½
198	Binghamton, N. Y	34	34	27	29	21	24	18	18	13½	14	11½	13	10½
220	Owego, N. Y	37	35	29	30	23	25	18	18	14	15	13	13	11½
229	Waverly, N. Y	38	35	30	30	23	26	18	18	14½	15	13½	13	12½
244	Chemung, N. Y	39	35	31	30	23	25	18	18	15	15	14	13	12½
257	Elmira, N. Y	40	35	32	30	23	25	18	18	15½	15	14½	13	12½
274	Corning, N. Y	41	35	33	30	24	25	19	18	16	15	15	13	13½
285	Addison, N. Y	42	35	34	30	25	25	20	18	16½	15	15½	13	13½
311	Canisteo, N. Y	45	35	36	30	27	25	21	18	16½	15	15½	13	13½
327	Canaseraga, N. Y	45	35	36	30	27	25	21	18	16½	15	15½	13	13½
332	Swains, N. Y	45	35	37	30	27	25	22	18	17	15	16	13	14½
339	Dalton, N. Y	45	35	37	30	27	25	22	18	17	15	16	13	14½
345	Portage, N. Y	45	35	37	30	27	25	22	18	17	15	16	13	14½
351	Silver Springs, N. Y	46	35	38	30	28	25	23	18	17	15	16	13	14½
358	Warsaw, N. Y	46	35	38	30	28	25	23	18	17	15	16	13	14½
364	Dale, N. Y	46	39	38	33	28	28	23	19	17	16	16	13	14½
368	Linden, N. Y	46	39	38	33	28	28	23	19	17	16	16	13	14½
375	Attica, N. Y	47	39	38	33	29	28	24	19	17½	16	16½	13	14½
396	Lancaster, N. Y	49	39	40	33	30	28	24	19	17½	16	16½	13	14½
406	Buffalo, N. Y	50	39	40	33	30	28	25	19	17½	16	16½	13	14½

TABLE 139.—COMPARISON OF RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC BY THE LEHIGH VALLEY RAILROAD FROM NEW YORK TO POINTS NAMED DURING 1876, 1886, AND 1893.

[1876 and 1886, Joint Merchandise classification; 1893, Official classification.]

Distance.	From New York, N. Y., to—	Classes (rates in cents per 100 pounds).																	
		1876.						1886.							1893.				
		1.	2.	3.	4.	*A.	*B.	1.	2.	3.	4.	*A.	*B.	*C.	1.	2.	3.	4.	5.	6.
Miles.																			
78	Easton, Pa	33	28	22	15	200	160	25	22	18	15	200	160	140	22	18	15	12	10½	9½
90	Bethlehem, Pa	37	30	22	19	240	220	25	22	18	15	200	165	150	24	21	17	14	12	11
94	Allentown, Pa	38	31	23	20	250	225	31	22	18	16	210	190	170	26	22	18	15	13	11
110	Slatington, Pa	41	34	26	22	300	260	35	27	20	16	250	225	200	30	26	20	16	14	11
123	Mauch Chunk, Pa	44	37	28	23	340	280	35	27	20	17	250	225	200	33	27	21	16	14	11
155	Hazelton, Pa	51	43	33	25	400	340	35	30	25	17	280	250	225	35	30	23	17	15	12
159	Mahanoy City, Pa	45	35	27	22	310	310	40	32	25	18	260	235	210	35	30	23	17	15	12
177	Wilkesbarre, Pa	53	43	33	23	390	360	35	30	25	17	280	250	225	35	30	23	17	15	12
208	Tunkhannock, Pa	58	46	35	26	440	370	41	32	26	19	310	270	250	35	30	23	17	15	12
255	Towanda, Pa	60	48	37	26	450	380	46	36	29	21	340	300	270	35	30	25	18	15	13
308	Ithaca, N. Y	60	48	37	26	450	400	50	39	30	22	360	320	290	35	30	25	18	15	13
346	Geneva, N. Y	62	50	39	28	450	400	50	40	30	23	380	340	300	35	30	25	18	15	13

* Rates per ton.

TABLE 140.—COMPARISON OF LOCAL FREIGHT RATES UPON A MILEAGE BASIS CHARGED BY THE LEHIGH VALLEY RAILROAD FROM 1876 TO THE PRESENT TIME.

Distance.	Classes (rates in cents per 100 pounds).														Classes (rates in cents per ton).					
	1.			2.			3.			4.			5.	6.	A.		B.		C.	
	1876–1881.	1882–1886.	1887–1893.	1876–1881.	1882–1886.	1887–1893.	1876–1881.	1883–1886.	1887–1893.	1876–1881.	1882–1886.	1887–1893.	1887–1893.	1887–1893.	1876–1881.	1882–1886.	1876–1881.	1882–1886.	1876–1881.	1882–1886.
25 miles	16	15	14	13	12	11	10	9	9	8	7	7	5½	4½	120	110	95	100	90	
50 miles	23	21	20	19	17	16	15	13	13	12	10	10	8	7	180	170	150	140	130	
75 miles	31	25	24	24	19	19	19	15	15	15	12	12	9	8	250	190	180	170	150	
100 miles	36	29	27	28	22	22	23	18	18	17	14	14	10	9	300	220	225	190	170	
125 miles	42	32	30	32	24	24	25	20	19	19	15	15	11	10	340	240	260	210	180	
150 miles	46	34	32	36	26	26	29	21	21	21	17	16	12	11	380	260	300	230	200	
175 miles	52	37	34	41	29	28	32	23	23	24	18	17	14	12	410	280	330	250	220	
200 miles	58	40	35	46	31	30	35	25	25	26	19	18	15	13	450	300	360	270	240	

NOTE.—Rates 1876 to 1886, inclusive, were governed by a local classification; 1887 to 1893, by successive issues of Official classification.

TABLE 141.—COMPARISON OF FREIGHT RATES CHARGED BY THE PENNSYLVANIA RAILROAD FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC FROM NEW YORK, PHILADELPHIA, AND BALTIMORE TO POINTS NAMED DURING THE YEARS, 1876, 1886, AND 1893.

[1876 and 1886, Joint Merchandise classification; 1893, Official classification.]

To—	Year.	Classes (rates in cents per 100 pounds).																	
		From New York, N. Y.						From Philadelphia, Pa.						From Baltimore, Md.					
		1.	2.	3.	4.	5.	6.	1.	2.	3.	4.	5.	6.	1.	2.	3.	4.	5.	6.
Trenton, N. J.	1876	20	17	15	12	...	...	14	12	11	11	...	...	...	...	...	...	...	...
	1886	17	17	14	12	...	...	10	10	9	8	...	...	35	30	25	18	...	...
	1893	20	16	13	9	8	7	13	11	10	7½	6½	6	29	24	20	14½	12½	10½
Harrisburg, Pa.	1876	45	30	25	20	...	...	30	25	20	15	...	...	30	25	20	15	13	...
	1886	35	30	23	17	...	...	30	25	20	15	...	...	35	25	20	15	...	...
	1893	33	28	22	17	15	12	27	22	18	13½	11½	10	27	22	18	13½	11½	10
Altoona, Pa	1876	45	30	25	20	...	...	36	32	28	20	...	...	...	...	...	...	...	...
	1886	43	35	26	20	...	...	37	29	24	18	...	...	35	27	23	17	...	...
	1893	45	39	30	21	18	15	39	33	28	19	16	13	39	33	28	19	16	13
Pittsburg, Pa.	1876	45	30	25	29	...	...	36	32	28	20	...	...	...	...	...	...	...	...
	1886	43	35	26	20	...	...	37	29	24	18	...	...	35	27	23	17	...	...
	1893	45	39	30	21	18	15	39	33	28	19	16	33	39	33	28	19	16	13
Williamsport, Pa.	1876	40	35	30	25	...	...	36	32	27	23	...	...	43	38	33	25	...	...
	1886	40	32	23	18	...	...	37	29	23	18	...	...	35	27	23	17	...	...
	1893	35	30	23	17	15	12	35	30	23	17	15	12	35	30	23	17	15	13
Erie, Pa	1876	40	35	30	25	...	...	36	32	27	23	...	...	43	38	32	28	...	...
	1886	43	35	26	20	...	...	37	29	24	18	...	...	35	27	23	17	...	...
	1893	45	39	30	21	18	15	39	33	28	19	16	13	39	33	28	19	16	13

TABLE 142.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE BUFFALO, ROCHESTER AND PITTSBURG RAILWAY BETWEEN ROCHESTER, N. Y., AND STATIONS NAMED DURING 1886 AND 1893.

[1886, Joint Merchandise classification; 1893, Official classification.]

Distance.	From Rochester, N. Y., to—	Classes (rates in cents per 100 pounds.)												
		1.		2.		3.		4.		A.	5.	B.	6.	C.
		1886	1893	1886	1893	1886	1893	1886	1893	1886	1893	1886	1893	1886
Miles.														
2	Lincoln Park, N. Y	10	8	8	7	6	6	5	5	4	3	3½	2½	3
12	Scottsville, N. Y	12	10	10	8	8	7	6	5	5	3½	4	3	3½
18	Mumford, N. Y	14	13	12	10	9	9	7	7	6	5	5	4	4
26	Le Roy, N. Y	15	13	12	11	10	9	7	7	6	5	5	4	4
34	Pavilion, N. Y	17	15	13	12	11	10	8	7	7	6	6	5	5
51	Silver Springs, N. Y	18	17	14	13	12	11	9	8	8	6½	7	5½	6
84	Machias, N. Y	20	18	15	15	13	13	9	9	8	7	7	6	6
94	Ashford, N. Y	20	18	15	15	13	13	9	9	8	7	7	6	6
109	Salamanca, N. Y	19	19	15	16	12	14	9	9	8	7½	7	6½	6
109	Kilbuck, N. Y	20	19	16	16	13	14	10	9	9	7½	8	6½	7
118	Limestone, N. Y	27	21	21	18	17	15	13	10	9	8½	8	7½	7
123	Kendall, Pa	27	22	21	19	17	16	13	11	10	9	9	8	8
124	Bradford, Pa	27	23	21	19	17	16	13	11	10	9	9	8	8
131	Big Shanty, Pa	27	23	21	20	17	16	13	11	10	9½	9	8½	8
138	Riderville, Pa	35	24	28	21	21	17	18	12	.....	10	.....	9	.....
144	Mt. Jewett, Pa	35	24	28	21	21	17	18	12	.....	10	.....	9	.....
156	Rasselas, Pa	35	26	28	22	21	18	18	13	.....	11	.....	10	.....
166	Johnsburg, Pa	35	27	28	23	21	19	18	14	.....	11½	.....	10	.....
174	Ridgeway, Pa	27	28	22	24	18	20	15	14	12	12	11	10	10
192	Brockwayville, Pa	27	29	22	24	18	21	15	14	12	12	11	10	10
206	Du Bois, Pa	27	30	22	24	18	21	15	14	12	12	11	10	10
214	Sykes, Pa	35	31	30	27	25	22	20	17	17	13½	16	12½	15
228	Punxsutawney, Pa	35	31	30	27	25	22	20	17	17	13½	16	12½	15
231	Walston, Pa	35	31	30	27	25	22	20	17	17	13½	16	12½	15

TABLE 143.—COMPARISON OF LOCAL FREIGHT RATES FROM BUFFALO, N. Y., TO STATIONS NAMED CHARGED BY THE LAKE SHORE AND MICHIGAN SOUTHERN RAILWAY DURING 1886 AND 1893.

[1886, Middle and Western States classification; 1893, Official classification.]

Distance.	From Buffalo, N. Y., to —	Classes (rates in cents per 100 pounds).											
		1.		2.		3.		4.		5.		6.	
		1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.
Miles.													
129	Ashtabula, Ohio	28	21	23	18½	18	12½	13	10	10	8½	7½	7½
183	Cleveland, Ohio	30	22	24	19½	18	14	13	10½	10	9½	8	8
239	Norwalk, Ohio	35	27½	28	24	22	17½	16	13	12	11½	10	10
296	Toledo, Ohio	35	27½	28	24	22	17½	16	13	12	11½	10	10
329	Adrian, Mich	45	36½	35	32	25	23½	19	17	15	15	12	12
368	Butler, Ind	45	37	35	34	25	25	19	17	15	15	12	12
381	Homer, Mich	47	40½	37	35½	27	26	21	19	16	16½	14	14
385	Coldwater, Mich	47	41	37	36½	27	26½	21	19	16	17	14	14
388	Kendallville, Ind	45	37	35	34	25	25	19	17	15	15	12	12
410	Eaton Rapids, Mich	47	40½	37	35½	27	26	21	19	16	16½	14	14
455	South Bend, Ind	50	41	40	36½	30	26½	22½	19	17½	17	15	14
470	Plainwell, Mich	50	41	40	37	30	27	22½	19	17½	17	15	14
540	Chicago, Ill	50	42½	40	37½	30	27½	22½	20	17½	17½	15	15

TABLE 144.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE LAKE SHORE AND MICHIGAN SOUTHERN RAILWAY FROM TOLEDO, OHIO, TO STATIONS NAMED DURING 1886 AND 1893.

[1886, Middle and Western States classification; 1893, Official classification.]

Distance.	From Toledo, Ohio, to—	Year.	Classes (rates in cents per 100 pounds).					
			1.	2.	3.	4.	5.	6.
Miles.								
33	Adrian, Mich	1886	13	11	10	8	6	5
		1893	9	8½	8	7½	6	4½
71	Jackson, Mich	1886	22	19	15	12	7	6
		1893	15½	14	11½	9½	7½	6
85	Homer, Mich	1886	23	21	17	12	9	8
		1893	17	15½	12½	9½	8	7
89	Coldwater, Mich	1886	26	21	17	13	10	8
		1893	19	17	15	11	9	7½
113	Cleveland, Ohio	1886	25	20	15	10	8	6
		1893	20	18	14	10	8	6
114	Eaton Rapids, Mich	1886	30	25	20	15	11	8
		1893	17	15½	12½	9½	8	7
136	Three Rivers, Mich	1886	33	26	20	15	12	9
		1893	24	21½	16½	12	10	8½
159	South Bend, Ind	1886	37	29	20	15	12	10
		1893	26½	24	18	13	11	9
174	Plainwell, Mich	1886	38	30	20	15	12	10
		1893	25	22½	17	12½	10½	9
187	Allegan, Mich	1886	40	30	20	15	12	10
		1893	26½	24	18	13	11	9
244	Chicago, Ill	1886	40	30	20	15	12	10
		1893	33	30	23	15	12	9

TABLE 145.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE LAKE SHORE AND MICHIGAN SOUTHERN RAILWAY FROM CHICAGO, ILL., TO STATIONS NAMED DURING 1886 AND 1893.

[1886, Middle and Western States classification; 1893, Official classification.]

Distance.	From Chicago, Ill., to—	Year.	Class (rates in cents per 100 pounds).					
			1.	2.	3.	4.	5.	6.
Miles.								
49	Otis, Ind	1886	16	14	13	11	8	6
		1893	11½	10½	9½	8	6½	5
89	Mishawaka, Ind	1886	25	22	18	13	10	7½
		1893	18	16	13	10	8	7
130	Three Rivers, Mich	1886	35	26	23	16	13	10
		1893	24	21½	16½	12	10	8
155	Coldwater, Mich	1886	37	30	26	18	13	10
		1893	26	23½	17½	13	11	9
162	Butler, Ind	1886	35	28	22	13	13	10
		1893	27	24	18½	13	10	8½
168	Plainwell, Mich	1886	40	30	20	15	12	10
		1893	28	24½	18½	13½	11½	9
187	Homer, Mich	1886	40	34	27	20	15	12
		1893	29½	26½	20	14	12	9
196	Jackson, Mich	1886	40	34	27	20	15	12
		1893	30½	27	20½	14½	12½	9
211	Adrian, Mich	1886	40	30	23	16	13½	10
		1893	32	28½	21	15	13	9
244	Toledo, Ohio	1886	40	30	23	16	13½	10
		1893	33	30	23	15	12	9
337	Cleveland, Ohio	1886	50	40	30	20	15	12
		1893	37	34	25	17	15	13

TABLE 146.—COMPARISON OF FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC BY THE MICHIGAN CENTRAL RAILROAD FROM DETROIT, MICH., KALAMAZOO, MICH., AND CHICAGO, ILL., TO POINTS NAMED DURING YEARS 1884 AND 1893.

Distance.		Classes (rates in cents per 100 pounds).											
		1.		2.		3.		4.		5.		6.	
		1884.	1893.	1884.	1893.	1884.	1893.	1884.	1893.	1884.	1893.	1884.	1893.
Miles.	From Detroit, Mich., to—												
37½	Ann Arbor, Mich	10	9½	15	9	11	8½	8	7½	7	6	6	5
29	Ypsilanti, Mich	19	7½	15	7½	11	7½	8	7	6	5½	5	4½
76	Jackson, Mich	22	15½	19	14	15	11½	12	9½	7	7½	6	6
108	Bay City, Mich	25	25	20	20	15	15	12	12	10	10	8	8
108	East Saginaw, Mich	25	25	20	20	15	15	12	12	10	10	8	8
96	Albion, Mich	26	17	23	15½	20	12½	14	9½	9	8	8	7
121	Battle Creek, Mich	30	21½	25	19	19	15	14	11	10	9½	9	8
113	Lansing, Mich	30	19	25	16	20	13½	15	11	11	9	9	7
108	Marshall, Mich	30	19½	25	17½	19	13½	14	10½	10	9	9	7½
140	Owosso, Mich	32	19	25	16	20	13½	16	11	12	9	10	7
144	Kalamazoo, Mich	35	25	28	22½	20	17	15	12½	12	10½	9½	9
285	Chicago, Ill	40	33	30	30	20	23	15	15	12	13	10	10
170	Grand Rapids, Mich	40	26½	30	24	20	18	15	13	12	11	10	9
179	Niles, Mich	40	26½	30	24	20	18	15	13	12	11	10	9
228	Michigan City, Ind	40	33	30	30	20	23	15	15	12	13	10	10
	From Kalamazoo, Mich., to—												
107	Ann Arbor, Mich	35	20½	28	18½	20	14½	15	11	12½	9	9½	8
115	Ypsilanti, Mich	35	21½	28	19	20	15	15	11	12½	9½	9½	8
68	Jackson, Mich	24	14½	20	13½	16	11	12	9	8	7½	7	6
183	Bay City, Mich	40	30	30	26	25	19½	18	14	14	12	12	10
169	East Saginaw, Mich	40	30	30	26	25	19½	18	14	14	12	12	10
48	Albion, Mich	24	11½	18	10½	14	9½	12	8	8	6½	7	5½
23	Battle Creek, Mich	22	7½	18	7½	14	7½	10	7	7	5½	5	4
105	Lansing, Mich	33	20	26	18	20	14	15	10½	12	9	9	7½
36	Marshall, Mich	24	9½	18	9	14	8½	12	7½	8	6	7	5
132	Owosso, Mich	40	24	30	21½	25	16½	18	12	15	10	12	8½
144	Detroit, Mich	35	25	28	22½	20	17	15	12½	12½	10½	9½	9
141	Chicago, Ill	35	26½	28	24	20	18	15	13	12	11	9½	8½
162	Grand Rapids, Mich	23	.....	18	.....	15	.....	10	.....	6	.....	5	.....
47	Niles, Mich	30	11½	22	10½	18	9½	14	8	10	6½	7½	5½
84	Michigan City, Ind	35	26½	28	24	20	18	15	13	12	11	9½	8½
	From Chicago, Ill., to—												
248	Ann Arbor, Mich	45	33	35	30	30	22	20	15	15	13	12½	9
256	Ypsilanti, Mich	45	33	35	30	30	22	20	15	15	13	12½	9
209	Jackson, Mich	40	30½	34	27	27	20½	20	14½	15	12½	12	9
323	Bay City, Mich	50	33	40	30	30	23	20	15	12½	13	10	10
309	East Saginaw, Mich	50	33	40	30	30	23	20	15	12½	13	10	10
189	Albion, Mich	40	30½	34	27	27	20½	20	14½	15	12½	12	9
164	Battle Creek, Mich	38	27	30	24	25	18	18	13	15	11	10	8½
246	Lansing, Mich	40	32	35	29	28	23	20	15	15	13	12	9
177	Marshall, Mich	40	29	34	25½	27	19	20	13½	15	12	12	9
273	Owosso, Mich	45	33	35	30	28	23	18	15	14	13	12	9
68	Kalamazoo, Mich	35	26½	28	24	23	18	16	13	13	11	10	8½
285	Detroit, Mich	40	33	30	30	23	23	16	15	12½	13	10	9
303	Grand Rapids, Mich	25	29½	20	26	15	19½	12	14	10	12	9	9
94	Niles, Mich	25	18	22	16	18	13	13	10	10	8	7½	7
57	Michigan City, Ind	18	13	16	12	13	10½	11	8½	10	7½	7½	6

NOTE.—During 1884 rates were subject to Middle and Western States classification; 1893 rates are governed by Official classification.

TABLE 147.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE CINCINNATI, JACKSON AND MACKINAW RAILROAD BETWEEN TOLEDO, OHIO, AND STATIONS NAMED DURING 1886 AND 1893.

[1886 Local classification; 1893 Official classification.]

Distance.	Between Toledo, Ohio, and—	Year.	Classes (rates in cents per 100 pounds).					
			1.	2.	3.	4.	5.	6.
Miles.								
60	Addison, Mich	1886	36	27	21	17	.....	.....
		1893	13	12	10½	8½	7	6
114	Battle Creek, Mich	1886	47	38	29	22	.....	.....
		1893	21½	19	15	11	9½	8
156	Allegan, Mich	1886	53	43	33	27	.....	.....
		1893	26½	24	18	13	11	9

TABLE 148.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE GRAND RAPIDS AND INDIANA RAILROAD DURING 1886 AND 1893.

[1886, Middle and Western States classification; 1892, Official classification.]

Distance.	Classes (rates in cents per 100 pounds).													
	1.		2.		3.		4.		A.	5.	Lumber.	6.	Coal.	6.
	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.
Miles.														
5	10	8	8	7	7	6	6	5	5	4	3	3	2½	3
20	17	11	15	10	12	8	10	7	7	6	7	5	5	5
40	25	12½	20	11	16	9	14	7	11	6	8	5	6½	5
60	28	18	23	14	19	11	16	9	12½	7	9	6	7½	6
80	35	22	28	18	23	13	18	11	14½	8	10	7	8	7
100	38	25	31	20	24	15	20	11	17	9	10	7	10	7
200	52	35	42	30	32	22	24	16	22	13	17	12	14	12
250	58	40	48	34	38	26	28	18	24	16	17	14	16	14
300	63	45	53	38	43	28	35	19	30	18	18	16	17½	15
400	67	50	57	40	47	30	38	22	32	20	21	20	19	20
500	70	50	60	40	50	30	40	25	34	23	23	20	21½	25

TABLE 149.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE DETROIT, LANSING AND NORTHERN RAILROAD FROM DETROIT, MICH., TO STATIONS NAMED DURING THE YEARS 1887 AND 1893.

Distance.	From Detroit, Mich., to—	Date.	Classes (rates in cents per 100 pounds.					
			1.	2.	3.	4.	5.	6.
Miles.								
52	Howell, Mich	1887—Prior to Apr. 4	22	19	15	12	10	8
		After Apr. 4	20	16	13	10	8	6½
		1893	14½	12½	10½	9½	7½	6
85	Lansing, Mich	1887—Prior to Apr. 4	30	25	20	15	11	9
		After Apr. 4	23½	21	16	11½	10	8
		1893	19	16	13½	11	9	7
123	Ionia, Mich	1887—Prior to Apr. 4	40	30	20	15	12	10
		After Apr. 4	32	29	20	15	12	9
		1893	25	21	17	13	10½	8
161	Howard City, Mich	1887—Prior to Apr. 4	42	33	24	17	12½	11
		After Apr. 4	35	29	22	16	12½	10
		1893	31	27	21	15	12½	10
191	Big Rapids, Mich	1887—Prior to Apr. 4	42	33	24	17	12½	10
		After Apr. 4	40	32	24	17	12½	10
		1893	35	30	23	16	12½	10

NOTE.—Rates prior to April 4, 1887, were governed by Middle and Western States classification, subsequent rates, by Official classification.

TABLE 150.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE CHICAGO AND GRAND TRUNK RAILWAY FROM FLINT, MICH., TO POINTS NAMED DURING 1882, 1887, AND 1893.

[During 1882 rates were governed by a local classification; during 1887 by the Middle and Western States classification, and during 1893 by Official classification.]

Distance.	From Flint, Mich., to—	Classes (rates in cents per 100 pounds).															
		1.			2.			3.			4.			5.			6.		
		1882.	1887.	1893.	1882.	1887.	1893.	1882.	1887.	1893.	1882.	1887.	1893.	1882.	1887.	1893.	1882.*	1887.	1893.
Miles.																			
224	Ainsworth, Ind	59	40	33	49	30	29	39	20	21½	32	15	15	...	12	12	23	10	10
194	Kingsbury, Ind	57	40	30	47	30	27	37	20	20	30	15	14½	...	12	12	22	10	10
156	Edwardsburg, Mich	53	40	26½	43	30	24	33	20	18	27	15	13	...	12	11	20	10	9
138	Wakelee, Mich	51	40	24½	41	30	22	31	20	16½	25	15	12	...	15	10½	19	12	9
104	Climax, Mich	45	40	20	36	30	18	28	20	14	21	15	10½	...	12	9	17	10	7½
21	Bancroft, Mich	22	22	7½	18	18	7½	14	14	7½	10	10	7	...	8	5½	8	6	4
6	Otterburn, Mich	13	13	7	12	12	7	11	11	7	7	7	6	...	5	4½	6	4	3½
48	Emmet, Mich	34	25	11½	25	20	10½	19	15	9½	15	12	8	...	10	6½	12	8	5½

* Rates under head of 6th class for 1882 applied on grain and flour in carloads.

TABLE 151.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE CHICAGO AND GRAND TRUNK RAILWAY FROM CHICAGO, ILL., TO STATIONS NAMED DURING 1882, 1887, AND 1893.

[Rates prior to April 5, 1887, were subject to Middle and Western States classification, and subsequently to Official classification.]

Distance.	From Chicago, Ill., to—	Classes (rates in cents per 100 pounds).																	
		1.			2.			3.			4.			5.			6.		
		1882.	1887.	1893.	1882.	1887.	1893.	1882.	1887.	1893.	1882.	1887.	1893.	1882.	1887.	1893.	1882.	1887.	1893.
Miles.																			
55	Ainsworth, Ind	10	10	9½	9	9	9	8	8	8½	7	7	7½	7	6	6	7	5	5
75	Kingsbury, Ind	23	18	16	22	16	13	18	13	12	13	9	10	12	7	8	10	6	6
113	Edwardsburg, Mich	29	29	20	25	25	18	20	20	14	14	14	10½	13	13	9	10	10	7
131	Wakelee, Mich	35	35	24	28	28	21½	23	23	16½	16	16	12	14	13	10	13	9½	8
165	Climax, Mich	38	38	27	30	30	24	25	25	18	18	18	13	15	15	11	12½	10	8½
248	Bancroft, Mich	45	45	33	35	30	30	30	28	22	20	18	15	18	14	13	15	11	9
263	Otterburn, Mich	42	40	33	40	35	30	30	28	23	25	18	15	15	12	13	12½	10	9
317	Emmet, Mich	50	45	33	40	35	30	30	30	23	20	20	15	18	15	13	15	12½	9

TABLE 152.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE CHICAGO AND GRAND TRUNK RAILWAY FROM CHARLOTTE, MICH., TO STATIONS NAMED DURING 1882, 1886, AND 1893.

[During 1882 rates were governed by a local classification; during 1886 by the Middle and Western States classification, and during 1893 by Official classification.]

Distance.	From Charlotte, Mich., to—	Classes (rates in cents per 100 pounds).																	
		1.			2.			3.			4.			5.			6.		
		1882.	1886.	1893.	1882.	1886.	1893.	1882.	1886.	1893.	1882.	1886.	1893.	1882.	1886.	1893.	1882.*	1886.	1893.
Miles.																			
156	Ainsworth, Ind	53	40	26½	43	30	24	33	20	18	27	15	13	...	12	11	20	10	8
126	Kingsbury, Ind	50	40	23½	40	30	21	30	20	16	24	15	11½	...	12	10	18	10	8
83	Edwardsburg, Mich	42	36	18	33	28	16	26	20	13	20	15	10	...	12	8½	16	10	7
70	Wakelee, Mich	39	36	15½	30	28	14	24	20	11½	18	15	9½	...	12	7½	14	10	6½
36	Climax, Mich	30	30	9½	23	23	9	17	17	8	13	13	7½	...	10	6	11	7	5
47	Bancroft, Mich	34	34	11½	25	25	10½	19	19	9½	15	15	8	...	12	6½	12	10	5½
62	Otterburn, Mich	37	35	14	28	28	12½	22	20	10½	17	15	8½	...	12	7	13	10	6
116	Emmet, Mich	47	35	21½	38	30	19	29	20	15	22	15	11	...	12	9½	17	10	8

*Rates under head of 6th class for 1882 applied on grain and flour in car loads.

TABLE 153.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE CHICAGO AND GRAND TRUNK RAILWAY FROM PORT HURON, MICH., TO STATIONS NAMED DURING 1881, 1887, AND 1893.

[Rates prior to April 5, 1887, were subject to Middle and Western States classification, and subsequently to Official classification.]

Distance.	From Port Huron, Mich., to—	Classes (rates in cents per 100 pounds).																	
		1.			2.			3.			4.			5.			6.		
		1881.	1887.	1893.	1881.	1887.	1893.	1881.	1887.	1893.	1881.	1887.	1893.	1881.	1887.	1893.	1881.	1887.	1893.
Miles.																			
290	Ainsworth, Ind	52	40	33	42	30	30	36	20	23	25	15	15	21	12	12	19	10	10
260	Kingsbury, Ind	45	40	33	35	30	30	25	20	23	18	15	15	15	12	12	12½	10	10
222	Edwardsburg, Mich	40	40	26½	30	30	24	20	20	18	15	15	13	12½	12	11	10	10	9
204	Wakelee, Mich	41	40	26½	32	30	24	25	23	18	20	18	13	17	15	11	15	12	9
170	Climax, Mich	40	35	25	31	28	22½	25	22	17	20	16	12½	14	12	10½	12	10	9
87	Bancroft, Mich	30	30	18	22	22	16	17	17	13	14	14	10	12	12	8½	10	10	7
72	Otterburn, Mich	20	26	15½	21	21	14	16	16	11½	13	13	9½	11	11	7½	8	8	6½
18	Emmet, Mich	18	18	7½	15	15	7½	12	12	7½	10	10	7	8	8	5	6	6	4

TABLE 137.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE NEW YORK, LAKE ERIE AND WESTERN RAILROAD BETWEEN ELMIRA, N. Y., AND STATIONS NAMED DURING 1886 AND 1893.

Distance.	Between Elmira, N. Y., and—	Classes (rates in cents per 100 pounds).												
		1.		2.		3.		4.		A.	5.	B.	6.	C.
		1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1893.
Miles.														
73	Great Bend, Pa	21	21	17	18	13	15	10	10	8½	8½	7½	7½	6½
81	Susquehanna, Pa	21	22	18	19	14	16	11	11	8½	9	7½	8	6½
97	Deposit, N. Y	24	24	19	21	15	17	12	12	9	10	8	9	7
110	Hancock, N. Y	26	26	20	22	16	18	13	13	10	11	9	10	7½
138	Callicoon, N. Y	28	28	22	24	17	20	15	15	11½	12½	10	11½	8½
151	Narrowsburg, N. Y	28	29	22	25	17	21	15	15	11½	13	10½	12	9½
157	Mast Hope, Pa	30	30	23	26	18	21	16	16	12	13½	10½	12½	9½
163	Lackawaxen, Pa	30	30	23	26	18	21	16	16	12½	13½	10½	12½	9½
167	Shohola, Pa	31	31	24	27	19	22	17	17	12½	13½	10½	12½	9½
186	Port Jervis, N. Y	33	33	27	28	20	23	17	17	13	14	11½	13	10½
198	Otisville, N. Y	34	34	27	29	21	24	18	18	13½	14	11½	13	10½
203	Howells, N. Y	35	35	28	30	22	25	18	18	13½	15	12½	13	11½
207	Middletown, N. Y	35	35	28	30	22	25	18	18	13½	15	12½	13	11½
210	Hampton, N. Y	35	35	28	30	22	25	18	18	13½	15	12½	13	11½
214	Goshen, N. Y	35	35	28	30	22	25	18	18	13½	15	12½	13	11½
220	Greycourt, N. Y	37	35	29	30	23	25	18	18	14	15	13	13	11½
224	Monroe, N. Y	37	35	29	30	23	25	18	18	14	15	13	13	11½
226	Turners, N. Y	37	35	29	30	23	25	18	18	14	15	13	13	11½
239	Sterlington, N. Y	38	35	30	30	23	25	18	18	14½	15	13½	13	12½
246	Ramseys, N. J	39	35	31	30	23	25	18	18	15	15	14	13	12½
250	Hohokus, N. J	40	35	32	30	23	25	18	18	15½	15	14½	13	12½
252	Ridgewood, N. J	40	35	32	30	23	25	18	18	15½	15	14½	13	12½
257	Paterson, N. J	40	35	32	30	23	25	18	18	15½	15	14½	13	12½
262	Passaic, N. J	40	35	32	30	23	25	18	18	15½	15	15	13	13
264	Rutherford, N. J	40	35	32	30	23	25	18	18	15½	15	15	13	13
273	Jersey City, N. J	41	35	33	30	24	25	19	18	16	15	15	13	13½
274	New York, N. Y	41	35	33	30	24	25	19	18	.....	15	.....	13	.....

NOTE.—Rates given for 1886 were subject to Joint Merchandise classification; those for 1893 to Official classification.

TABLE 138.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE NEW YORK, LAKE ERIE, AND WESTERN RAILROAD BETWEEN PATERSON, N. J., AND STATIONS NAMED DURING 1886 AND 1893.

[1886, Joint Merchandise classification; 1893, Official classification.]

Distance.	Between Paterson, N. J., and—	Classes (rates in cents per 100 pounds).												
		1.		2.		3.		4.		A.	5.	B.	6.	C.
		1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.
Miles.														
5	Ridgewood, N. J	8	8	7	7	6	6	4	5	3	3	2½	2½	2½
7	Hohokus, N. J	8	10	7	8	6	7	4	5	3½	3½	2½	3	2½
11	Ramseys, N. J	8	11	7	9	6	7	5	5	3½	4	3	3½	2½
15	Suffern, N. Y	10	12	8	10	7	8	5	6	4	4½	3½	4	3
18	Sterlington, N. Y	10	13	8	10	7	9	5	7	4	5	3½	4½	3
31	Turners, N. Y	14	14	11	11	10	10	7	7	4½	5½	4½	5	3½
37	Greycourt, N. Y	15	15	12	12	10	10	7	7	5½	6	4½	5	4
43	Goshen, N. Y	16	16	13	13	11	11	8	8	6½	6½	5½	5½	4½
47	Hampton, N. Y	17	17	13	14	11	12	8	8	6½	6½	5½	5½	4½
50	Middletown, N. Y	18	18	14	15	12	13	9	9	6½	7	5½	6	5½
71	Port Jervis, N. Y	21	21	17	18	13	15	10	10	8⅛	8½	7½	7½	6½
94	Lackawaxen, Pa	24	24	19	21	16	17	12	12	9	10	8	9	6½
160	Deposit, N. Y	30	30	23	26	18	21	16	16	12½	13½	10½	12	9½
176	Susquehanna, Pa	33	33	26	28	20	23	17	17	12½	14	11	13	10
184	Great Bend, Pa	33	33	27	28	20	23	17	17	13	14	11½	13	10½
198	Binghamton, N. Y	34	34	27	29	21	24	18	18	13½	14	11½	13	10½
220	Owego, N. Y	37	35	29	30	23	25	18	18	14	15	13	13	11½
229	Waverly, N. Y	38	35	30	30	23	26	18	18	14½	15	13½	13	12½
244	Chemung, N. Y	39	35	31	30	23	25	18	18	15	15	14	13	12½
257	Elmira, N. Y	40	35	32	30	23	25	18	18	15½	15	14½	13	12½
274	Corning, N. Y	41	35	33	30	24	25	19	18	16	15	15	13	13½
285	Addison, N. Y	42	35	34	30	25	25	20	18	16½	15	15½	13	13½
311	Canisteo, N. Y	45	35	36	30	27	25	21	18	16½	15	15½	13	13½
327	Canaseraga, N. Y	45	35	36	30	27	25	21	18	16½	15	15½	13	13½
332	Swains, N. Y	45	35	37	30	27	25	22	18	17	15	16	13	14½
339	Dalton, N. Y	45	35	37	30	27	25	22	18	17	15	16	13	14½
345	Portage, N. Y	45	35	37	30	27	25	22	18	17	15	16	13	14½
351	Silver Springs, N. Y	46	35	38	30	28	25	23	18	17	15	16	13	14½
358	Warsaw, N. Y	46	35	38	30	28	25	23	18	17	15	16	13	14½
364	Dale, N. Y	46	39	38	33	28	28	23	19	17	16	16	13	14½
368	Linden, N. Y	46	39	38	33	28	28	23	19	17	16	16	13	14½
375	Attica, N. Y	47	39	38	33	29	28	24	19	17½	16	16½	13	14½
396	Lancaster, N. Y	49	39	40	33	30	28	24	19	17½	16	16½	13	14½
408	Buffalo, N. Y	50	39	40	33	30	28	25	19	17½	16	16½	13	14½

TABLE 139.—COMPARISON OF RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC BY THE LEHIGH VALLEY RAILROAD FROM NEW YORK TO POINTS NAMED DURING 1876, 1886, AND 1893.

[1876 and 1886, Joint Merchandise classification; 1893, Official classification.]

Distance.	From New York, N. Y., to—	Classes (rates in cents per 100 pounds).																	
		1876.						1886.							1893.				
		1.	2.	3.	4.	*A.	*B.	1.	2.	3.	4.	*A.	*B.	*C.	1.	2.	3.	4.	5.	6.
Miles.																			
78	Easton, Pa	33	28	22	15	200	160	25	22	18	15	200	160	140	22	18	15	12	10½	9½
90	Bethlehem, Pa	37	30	22	19	240	220	25	22	18	15	200	165	150	24	21	17	14	12	11
94	Allentown, Pa	38	31	23	20	250	225	31	22	18	16	210	190	170	26	22	18	15	13	11
110	Slatington, Pa	41	34	26	22	300	260	35	27	20	16	250	225	200	30	26	20	16	14	11
123	Mauch Chunk, Pa	44	37	28	23	340	280	35	27	20	17	250	225	200	33	27	21	16	14	11
155	Hazelton, Pa	51	43	33	25	400	340	35	30	25	17	280	250	225	35	30	23	17	15	12
159	Mahanoy City, Pa	45	35	27	22	310	310	40	32	25	18	260	235	210	35	30	23	17	15	12
177	Wilkesbarre, Pa	53	43	33	23	390	360	35	30	25	17	280	250	225	35	30	23	17	15	12
208	Tunkhannock, Pa	58	46	35	26	440	370	41	32	26	19	310	270	250	35	30	23	17	15	12
255	TowandaPa	60	48	37	26	450	380	46	36	29	21	340	300	270	35	30	25	18	15	13
308	Ithaca, N. Y	60	48	37	26	450	400	50	39	30	22	360	320	290	35	30	25	18	15	13
346	Geneva, N. Y	62	50	39	28	450	400	50	40	30	23	380	340	300	35	30	25	18	15	13

* Rates per ton.

TABLE 140.—COMPARISON OF LOCAL FREIGHT RATES UPON A MILEAGE BASIS CHARGED BY THE LEHIGH VALLEY RAILROAD FROM 1876 TO THE PRESENT TIME.

Distance.	Classes (rates in cents per 100 pounds).														Classes (rates in cents per ton).				
	1.			2.			3.			4.			5.	6.	A.		B.		C.
	1876–1881.	1882–1886.	1887–1893.	1876–1881.	1882–1886.	1887–1893.	1876–1881.	1882–1886.	1887–1893.	1876–1881.	1882–1886.	1887–1893.	1887–1893.	1887–1893.	1876–1881.	1882–1886.	1876–1881.	1882–1886.	1887–1893.
25 miles	16	15	14	13	12	11	10	9	9	8	7	7	5½	4½	120	110	95	100	90
50 miles	23	21	20	19	17	16	15	13	13	12	10	10	8	7	180	170	150	140	130
75 miles	31	25	24	24	19	19	19	15	15	15	12	12	9	8	250	190	180	170	150
100 miles	36	29	27	28	22	22	23	18	18	17	14	14	10	9	300	220	225	190	170
125 miles	42	32	30	32	24	24	25	20	19	19	15	15	11	10	340	240	260	210	190
150 miles	46	34	32	36	26	26	29	21	21	21	17	16	12	11	380	260	300	230	200
175 miles	52	37	34	41	29	28	32	23	23	24	18	17	14	12	410	280	330	250	220
200 miles	58	40	35	46	31	30	35	25	25	26	19	18	15	13	450	300	360	270	240

NOTE.—Rates 1876 to 1886, inclusive, were governed by a local classification; 1887 to 1893, by successive issues of Official classification.

TABLE 141.—COMPARISON OF FREIGHT RATES CHARGED BY THE PENNSYLVANIA RAILROAD FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC FROM NEW YORK, PHILADELPHIA, AND BALTIMORE TO POINTS NAMED DURING THE YEARS, 1876, 1886, AND 1893.

[1876 and 1886, Joint Merchandise classification; 1893, Official classification.]

To—	Year.	Classes (rates in cents per 100 pounds).																	
		From New York, N. Y.						From Philadelphia, Pa.						From Baltimore, Md.					
		1.	2.	3.	4.	5.	6.	1.	2.	3.	4.	5.	6.	1.	2.	3.	4.	5.	6.
Trenton, N. J.	1876	20	17	15	12	...	...	14	12	11	11	...	...	...	...	...	...	...	...
	1886	17	17	14	12	...	...	10	10	9	8	...	...	35	30	25	18	...	...
	1893	20	16	13	9	8	7	13	11	10	7½	6½	6	29	24	20	14½	12½	10½
Harrisburg, Pa.	1876	45	30	25	20	...	...	30	25	20	15	...	...	30	25	20	15	13	...
	1886	35	30	23	17	...	...	30	25	20	15	...	...	35	25	20	15	...	...
	1893	33	28	22	17	15	12	27	22	18	13½	11½	10	27	22	18	13½	11½	10
Altoona, Pa	1876	45	30	25	20	...	...	36	32	28	20	...	...	...	...	...	...	...	...
	1886	43	35	26	20	...	...	37	29	24	18	...	...	35	27	23	17	...	...
	1893	45	39	30	21	18	15	39	33	28	19	16	13	39	33	28	19	16	13
Pittsburg, Pa.	1876	45	30	25	29	...	...	36	32	28	20	...	...	...	...	...	...	...	...
	1886	43	35	26	20	...	...	37	29	24	18	...	...	35	27	23	17	...	...
	1893	45	39	30	21	18	15	39	33	28	19	16	33	39	33	28	19	16	13
Williamsport, Pa.	1876	40	35	30	25	...	...	36	32	27	23	...	...	43	38	33	25	...	...
	1886	40	32	23	18	...	...	37	29	23	18	...	...	35	27	23	17	...	...
	1893	35	30	23	17	15	12	35	30	23	17	15	12	35	30	23	17	15	12
Erie, Pa	1876	40	35	30	25	...	...	36	32	27	23	...	...	43	38	32	28	...	...
	1886	43	35	26	20	...	...	37	29	24	18	...	...	35	27	23	17	...	...
	1893	45	39	30	21	18	15	39	33	28	19	16	13	39	33	28	19	16	13

TABLE 142.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE BUFFALO, ROCHESTER AND PITTSBURG RAILWAY BETWEEN ROCHESTER, N. Y., AND STATIONS NAMED DURING 1886 AND 1893.

[1886, Joint Merchandise classification; 1893, Official classification.]

Distance.	From Rochester, N. Y., to—	Classes (rates in cents per 100 pounds.)												
		1.		2.		3.		4.		A.	5.	B.	6.	C.
		1886	1893	1886	1893	1886	1893	1886	1893	1886	1893	1886	1893	1886
Miles.														
2	Lincoln Park, N. Y	10	8	8	7	6	6	5	5	4	3	3½	2½	3
12	Scottsville, N. Y	12	10	10	8	8	7	6	5	5	3½	4	3	3½
18	Mumford, N. Y	14	13	12	10	9	9	7	7	6	5	5	4	4
26	Le Roy, N. Y	15	13	12	11	10	9	7	7	6	5	5	4	4
34	Pavilion, N. Y	17	15	13	12	11	10	8	7	7	6	6	5	5
51	Silver Springs, N. Y	18	17	14	13	12	11	9	8	8	6½	7	5½	6
84	Machias, N. Y	20	18	15	15	13	13	9	9	8	7	7	6	6
94	Ashford, N. Y	20	18	15	15	13	13	9	9	8	7	7	6	6
109	Salamanca, N. Y	19	19	15	16	12	14	9	9	8	7½	7	6½	6
109	Kilbuck, N. Y	20	19	16	16	13	14	10	9	9	7½	8	6½	7
118	Limestone, N. Y	27	21	21	18	17	15	13	10	9	8½	8	7½	7
123	Kendall, Pa	27	22	21	19	17	16	13	11	10	9	9	8	8
124	Bradford, Pa	27	23	21	19	17	16	13	11	10	9	9	8	8
131	Big Shanty, Pa	27	23	21	20	17	16	13	11	10	9½	9	8½	8
138	Riderville, Pa	35	24	28	21	21	17	18	12	.....	10	.....	9	.....
144	Mt. Jewett, Pa	35	24	28	21	21	17	18	12	.....	10	.....	9	.....
156	Rasselas, Pa	35	26	28	22	21	18	18	13	.....	11	.....	10	.....
166	Johnsburg, Pa	35	27	28	23	21	19	18	14	.....	11½	.....	10	.....
174	Ridgeway, Pa	27	28	22	24	18	20	15	14	12	12	11	10	10
192	Brockwayville, Pa	27	29	22	24	18	21	15	14	12	12	11	10	10
206	Du Bois, Pa	27	30	22	24	18	21	15	14	12	12	11	10	10
214	Sykes, Pa	35	31	30	27	25	22	20	17	17	13½	16	12½	15
228	Punxsutawney, Pa	35	31	30	27	25	22	20	17	17	13½	16	12½	15
231	Walston, Pa	35	31	30	27	25	22	20	17	17	13½	16	12½	15

TABLE 143.—COMPARISON OF LOCAL FREIGHT RATES FROM BUFFALO, N. Y., TO STATIONS NAMED CHARGED BY THE LAKE SHORE AND MICHIGAN SOUTHERN RAILWAY DURING 1886 AND 1893.

[1886, Middle and Western States classification; 1893, Official classification.]

Distance.	From Buffalo, N. Y., to —	Classes (rates in cents per 100 pounds).											
		1.		2.		3.		4.		5.		6.	
		1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.
Miles.													
129	Ashtabula, Ohio	28	21	23	18½	18	13½	13	10	10	8½	7½	7½
183	Cleveland, Ohio	30	22	24	19½	18	14	13	10½	10	9½	8	8
239	Norwalk, Ohio	35	27½	28	24	22	17½	16	13	12	11½	10	10
296	Toledo, Ohio	35	27½	28	24	22	17½	16	13	12	11½	10	10
329	Adrian, Mich	45	36½	35	32	25	23½	19	17	15	15	12	12
368	Butler, Ind	45	37	35	34	25	25	19	17	15	15	12	12
381	Homer, Mich	47	40½	37	35½	27	26	21	19	16	16½	14	14
385	Coldwater, Mich	47	41	37	36½	27	26½	21	19	16	17	14	14
388	Kendallville, Ind	45	37	35	34	25	25	19	17	15	15	12	12
410	Eaton Rapids, Mich	47	40½	37	35½	27	26	21	19	16	16½	14	14
455	South Bend, Ind	50	41	40	36½	30	26½	22½	19	17½	17	15	14
470	Plainwell, Mich	50	41	40	37	30	27	22½	19	17½	17	15	14
540	Chicago, Ill	50	42½	40	37½	30	27½	22½	20	17½	17½	15	15

TABLE 144.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE LAKE SHORE AND MICHIGAN SOUTHERN RAILWAY FROM TOLEDO, OHIO, TO STATIONS NAMED DURING 1886 AND 1893.

[1886, Middle and Western States classification; 1893, Official classification.]

Distance.	From Toledo, Ohio, to—	Year.	Classes (rates in cents per 100 pounds).					
			1.	2.	3.	4.	5.	6.
Miles.								
33	Adrian, Mich	1886	13	11	10	8	6	5
		1893	9	8½	8	7½	6	4½
71	Jackson, Mich	1886	22	19	15	12	7	6
		1893	15½	14	11½	9½	7½	6
85	Homer, Mich	1886	23	21	17	12	9	8
		1893	17	15½	12½	9½	8	7
89	Coldwater, Mich	1886	26	21	17	13	10	8
		1893	19	17	15	11	9	7½
113	Cleveland, Ohio	1886	25	20	15	10	8	6
		1893	20	18	14	10	8	6
114	Eaton Rapids, Mich	1886	30	25	20	15	11	8
		1893	17	15½	12½	9½	8	7
136	Three Rivers, Mich	1886	33	26	20	15	12	9
		1893	24	21½	16½	12	10	8½
159	South Bend, Ind	1886	37	29	20	15	12	10
		1893	26½	24	18	13	11	9
174	Plainwell, Mich	1886	38	30	20	15	12	10
		1893	25	22½	17	12½	10½	9
187	Allegan, Mich	1886	40	30	20	15	12	10
		1893	26½	24	18	13	11	9
244	Chicago, Ill	1886	40	30	20	15	12	10
		1893	33	30	23	15	12	9

TABLE 145.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE LAKE SHORE AND MICHIGAN SOUTHERN RAILWAY FROM CHICAGO, ILL., TO STATIONS NAMED DURING 1886 AND 1893.

[1886, Middle and Western States classification; 1893, Official classification.]

Distance.	From Chicago, Ill., to—	Year.	Class (rates in cents per 100 pounds).					
			1.	2.	3.	4.	5.	6.
Miles.								
49	Otis, Ind	1886	16	14	13	11	8	6
		1893	11½	10½	9½	8	6½	5
89	Mishawaka, Ind	1886	25	22	18	13	10	7½
		1893	18	16	13	10	8	7
120	Three Rivers, Mich	1886	35	26	23	16	13	10
		1893	24	21½	16½	12	10	8
155	Coldwater, Mich	1886	37	30	25	18	13	10
		1893	26	23½	17½	13	11	9
162	Butler, Ind	1886	35	28	22	13	13	10
		1893	27	24	18½	13	10	8½
168	Plainwell, Mich	1886	40	30	20	15	12	10
		1893	28	24½	18½	13½	11½	9
187	Homer, Mich	1886	40	34	27	20	15	12
		1893	29½	26½	20	14	12	9
198	Jackson, Mich	1886	40	34	27	20	15	12
		1893	30½	27	20½	14½	12½	9
211	Adrian, Mich	1886	40	30	22	16	13½	10
		1893	32	28½	21	15	12	9
244	Toledo, Ohio	1886	40	30	23	16	13½	10
		1893	33	30	23	15	13	9
337	Cleveland, Ohio	1886	50	40	30	20	15	12
		1893	37	34	26	17	15	13

TABLE 146.—COMPARISON OF FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC BY THE MICHIGAN CENTRAL RAILROAD FROM DETROIT, MICH., KALAMAZOO, MICH., AND CHICAGO, ILL., TO POINTS NAMED DURING YEARS 1884 AND 1893.

Distance.		Classes (rates in cents per 100 pounds).											
		1.		2.		3.		4.		5.		6.	
		1884.	1893.	1884.	1893.	1884.	1893.	1884.	1893.	1884.	1893.	1884.	1893.
Miles.	From Detroit, Mich., to—												
37½	Ann Arbor, Mich	19	9½	15	9	11	8½	8	7½	7	6	6	5
29	Ypsilanti, Mich	19	7½	15	7½	11	7½	8	7	6	5½	5	4½
76	Jackson, Mich	22	15½	19	14	15	11½	12	9½	7	7½	6	6
108	Bay City, Mich	25	25	20	20	15	15	12	12	10	10	8	8
108	East Saginaw, Mich	25	25	20	20	15	15	12	12	10	10	8	8
96	Albion, Mich	26	17	23	15½	20	12½	14	9½	9	8	8	7
121	Battle Creek, Mich	30	21½	25	19	19	15	14	11	10	9½	9	8
113	Lansing, Mich	30	19	25	16	20	13½	15	11	11	9	9	7
108	Marshall, Mich	30	19½	25	17½	19	13½	14	10½	10	9	9	7½
140	Owosso, Mich	32	19	25	16	20	13½	16	11	12	9	10	7
144	Kalamazoo, Mich	35	25	28	22½	20	17	15	12½	12	10½	9½	9
285	Chicago, Ill	40	33	30	30	20	23	15	15	12	13	10	10
170	Grand Rapids, Mich	40	26½	30	24	20	18	15	13	12	11	10	9
179	Niles, Mich	40	26½	30	24	20	18	15	13	12	11	10	9
228	Michigan City, Ind	40	33	30	30	20	23	15	15	12	13	10	10
	From Kalamazoo, Mich., to—												
107	Ann Arbor, Mich	35	20½	28	18½	20	14½	15	11	12½	9	9½	8
115	Ypsilanti, Mich	35	21½	28	19	20	15	15	11	12½	9½	9½	8
68	Jackson, Mich	24	14½	20	13½	16	11	12	9	8	7½	7	6
182	Bay City, Mich	40	30	30	26	25	19½	18	14	14	12	12	10
169	East Saginaw, Mich	40	30	30	26	25	19½	18	14	14	12	12	10
48	Albion, Mich	24	11½	18	10½	14	9½	12	8	8	6½	7	5½
23	Battle Creek, Mich	22	7½	18	7½	14	7½	10	7	7	5½	5	4
105	Lansing, Mich	33	20	26	18	20	14	15	10½	12	9	9	7½
36	Marshall, Mich	24	9½	18	9	14	8½	12	7½	8	6	7	5
132	Owosso, Mich	40	24	30	21½	25	16½	18	12	15	10	12	8½
144	Detroit, Mich	35	25	28	22½	20	17	15	12½	12½	10½	9½	9
141	Chicago, Ill	35	26½	28	24	20	18	15	13	12	11	9½	8½
162	Grand Rapids, Mich	23	.....	18	.....	15	.....	10	.....	6	.....	5	.....
47	Niles, Mich	30	11½	22	10½	18	9½	14	8	10	6½	7½	5½
84	Michigan City, Ind	35	26½	28	24	20	18	15	13	12	11	9½	8½
	From Chicago, Ill., to—												
248	Ann Arbor, Mich	45	33	35	30	30	22	20	15	15	13	12½	9
256	Ypsilanti, Mich	45	33	35	30	30	22	20	15	15	13	12½	9
209	Jackson, Mich	40	30½	34	27	27	20½	20	14½	15	12½	12	9
323	Bay City, Mich	50	33	40	30	30	23	20	15	12½	13	10	10
309	East Saginaw, Mich	50	33	40	30	30	23	20	15	12½	13	10	10
189	Albion, Mich	40	30½	34	27	27	20½	20	14½	15	12½	12	9
164	Battle Creek, Mich	38	27	30	24	25	18	18	13	15	11	10	8½
246	Lansing, Mich	40	32	35	29	28	23	20	15	15	13	12	9
177	Marshall, Mich	40	29	34	25½	27	19	20	13½	15	12	12	9
273	Owosso, Mich	45	33	35	30	28	23	18	15	14	13	12	9
68	Kalamazoo, Mich	35	26½	28	24	23	18	16	13	13	11	10	8½
285	Detroit, Mich	40	33	30	30	23	23	16	15	12½	13	10	9
303	Grand Rapids, Mich	25	29½	20	26	15	19½	12	14	10	12	9	9
94	Niles, Mich	25	18	22	16	18	13	13	10	10	8	7½	7
57	Michigan City, Ind	18	13	16	12	13	10½	11	8½	10	7½	7½	6

NOTE.—During 1884 rates were subject to Middle and Western States classification; 1893 rates are governed by Official classification.

TABLE 147.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE CINCINNATI, JACKSON AND MACKINAW RAILROAD BETWEEN TOLEDO, OHIO, AND STATIONS NAMED DURING 1886 AND 1893.

[1886 Local classification; 1893 Official classification.]

Distance.	Between Toledo, Ohio, and—	Year.	Classes (rates in cents per 100 pounds).					
			1.	2.	3.	4.	5.	6.
Miles.								
60	Addison, Mich	1886	36	27	21	17	.....	.....
		1893	13	12	10½	8½	7	6
114	Battle Creek, Mich	1886	47	38	29	22	.....	.....
		1893	21½	19	15	11	9½	8
156	Allegan, Mich	1886	53	43	33	27	.....	.....
		1893	26½	24	18	13	11	9

TABLE 148.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE GRAND RAPIDS AND INDIANA RAILROAD DURING 1886 AND 1893.

[1886, Middle and Western States classification; 1892, Official classification.]

Distance.	Classes (rates in cents per 100 pounds).													
	1.		2.		3.		4.		A.	B.	Lumber.	C.	Coal.	C.
	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.
Miles.														
5	10	8	8	7	7	6	6	5	5	4	3	3	3½	
20	17	11	15	10	12	8	10	7	7	6	7	5	5	
40	25	12½	20	11	16	9	14	7	11	6	8	5	6½	
60	28	18	23	14	19	11	16	9	12½	7	9	6	7½	
80	35	22	28	18	23	13	18	11	14½	8	10	7	8	
100	38	25	31	20	24	15	20	11	17	9	10	7	10	
200	52	35	42	30	32	22	24	16	22	13	17	12	14	1
250	58	40	48	34	38	26	28	18	24	16	17	14	16	1
300	63	45	53	38	43	28	35	19	30	18	18	16	17½	1
400	67	50	57	40	47	30	38	22	32	20	21	20	19	2
500	70	50	60	40	50	30	40	25	34	23	23	20	21½	2

TABLE 149.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE DETROIT, LANSING AND NORTHERN RAILROAD FROM DETROIT, MICH., TO STATIONS NAMED DURING THE YEARS 1887 AND 1893.

Distance.	From Detroit, Mich., to—	Date.	Classes (rates in cents per 100 pounds).					
			1.	2.	3.	4.	5.	6.
Miles.								
52	Howell, Mich	1887—Prior to Apr. 4	22	19	15	12	10	5
		After Apr. 4	20	16	13	10	8	6½
		1893	14½	12½	10½	9½	7½	6
85	Lansing, Mich	1887—Prior to Apr. 4	30	25	20	15	11	9
		After Apr. 4	23½	21	16	11½	10	8
		1893	19	16	12½	11	9	7
123	Ionia, Mich	1887—Prior to Apr. 4	40	30	20	15	12	10
		After Apr. 4	32	29	20	15	12	9
		1893	25	21	17	13	10½	8½
161	Howard City, Mich	1887—Prior to Apr. 4	42	33	24	17	12½	10
		After Apr. 4	35	29	22	16	12½	10
		1893	31	27	21	15	12½	10
191	Big Rapids, Mich	1887—Prior to Apr. 4	42	33	24	17	12½	10
		After Apr. 4	40	32	24	17	12½	10
		1893	35	30	23	16	12½	10

NOTE.—Rates prior to April 4, 1887, were governed by Middle and Western States classification; subsequent rates, by Official classification.

TABLE 150.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE CHICAGO AND GRAND TRUNK RAILWAY FROM FLINT, MICH., TO POINTS NAMED DURING 1882, 1887, AND 1893.

[During 1882 rates were governed by a local classification; during 1887 by the Middle and Western States classification, and during 1893 by Official classification.]

Distance.	From Flint, Mich., to—	Classes (rates in cents per 100 pounds).															
		1.			2.			3.			4.			5.			6.		
		1882.	1887.	1893.	1882.	1887.	1893.	1882.	1887.	1893.	1882.	1887.	1893.	1882.	1887.	1893.	1882.*	1887.	1893.
Miles.																			
224	Ainsworth, Ind	59	40	33	49	30	29	39	20	21½	32	15	15	...	12	12	22	10	10
194	Kingsbury, Ind	57	40	30	47	30	27	37	20	20	30	15	14½	...	12	12	22	10	10
156	Edwardsburg, Mich	53	40	26½	43	30	24	33	20	18	27	15	13	...	12	11	20	10	9
138	Wakelee, Mich	51	40	24½	41	30	22	31	20	16½	25	15	12	...	15	10½	18	12	9
104	Climax, Mich	45	40	20	36	30	18	28	20	14	21	15	10½	...	12	9	17	10	7½
21	Bancroft, Mich	22	22	7½	18	18	7½	14	14	7½	10	10	7	...	8	5½	8	6	4
6	Otterburn, Mich	13	13	7	12	12	7	11	11	7	7	7	6	...	5	4½	6	4	3½
48	Emmet, Mich	34	25	11½	25	20	10½	19	15	9½	15	12	8	...	10	6½	12	8	5½

* Rates under head of 6th class for 1882 applied on grain and flour in carloads.

TABLE 151.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE CHICAGO AND GRAND TRUNK RAILWAY FROM CHICAGO, ILL., TO STATIONS NAMED DURING 1882, 1887, AND 1893.

[Rates prior to April 5, 1887, were subject to Middle and Western States classification, and subsequently to Official classification.]

Distance.	From Chicago, Ill., to—	Classes (rates in cents per 100 pounds).																	
		1.			2.			3.			4.			5.			6.		
		1882.	1887.	1893.	1882.	1887.	1893.	1882.	1887.	1893.	1882.	1887.	1893.	1882.	1887.	1893.	1882.	1887.	1893.
Miles.																			
55	Ainsworth, Ind	10	10	9½	9	9	9	8	8	8½	7	7	7½	7	6	6	7	5	5
75	Kingsbury, Ind	23	18	16	22	16	13	18	13	12	13	9	10	12	7	8	10	6	6
113	Edwardsburg, Mich	29	29	20	25	25	18	20	20	14	14	14	10½	13	13	9	10	10	7
131	Wakelee, Mich	35	35	24	28	28	21½	23	23	16½	16	16	12	14	13	10	13	9½	8
165	Climax, Mich	38	38	27	30	30	24	25	25	18	18	18	13	15	15	11	12½	10	8½
248	Bancroft, Mich	45	45	33	35	30	30	30	28	22	20	18	15	18	14	13	15	11	9
263	Otterburn, Mich	42	40	33	40	35	30	30	28	23	25	18	15	15	12	13	12½	10	9
317	Emmet, Mich	50	45	33	40	35	30	30	30	23	20	20	15	18	15	13	15	12½	9

TABLE 152.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE CHICAGO AND GRAND TRUNK RAILWAY FROM CHARLOTTE, MICH., TO STATIONS NAMED DURING 1882, 1886, AND 1893.

[During 1882 rates were governed by a local classification; during 1886 by the Middle and Western States classification, and during 1893 by Official classification.]

Distance.	From Charlotte, Mich., to—	Classes (rates in cents per 100 pounds).																	
		1.			2.			3.			4.			5.			6.		
		1882.	1886.	1893.	1882.	1886.	1893.	1882.	1886.	1893.	1882.	1886.	1893.	1882.	1886.	1893.	1882.*	1886.	1893.
Miles.																			
156	Ainsworth, Ind	53	40	26½	43	30	24	33	20	18	27	15	13	...	12	11	20	10	8
126	Kingsbury, Ind	50	40	23½	40	30	21	30	20	16	24	15	11½	...	12	10	18	10	8
83	Edwardsburg, Mich	42	36	18	33	28	16	26	20	13	20	15	10	...	12	8½	16	10	7
70	Wakelee, Mich	39	36	15½	30	28	14	24	20	11½	18	15	9½	...	12	7½	14	10	6½
36	Climax, Mich	30	30	9½	23	23	9	17	17	8	13	13	7½	...	10	6	11	7	5
47	Bancroft, Mich	34	34	11½	25	25	10½	19	19	9½	15	15	8	...	12	6½	12	10	5½
62	Otterburn, Mich	37	35	14	28	28	12½	22	20	10½	17	15	8½	...	12	7	13	10	6
116	Emmet, Mich	47	35	21½	38	30	19	29	20	15	22	15	11	...	12	9½	17	10	8

*Rates under head of 6th class for 1882 applied on grain and flour in car loads.

TABLE 153.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE CHICAGO AND GRAND TRUNK RAILWAY FROM PORT HURON, MICH., TO STATIONS NAMED DURING 1881, 1887, AND 1893.

[Rates prior to April 5, 1887, were subject to Middle and Western States classification, and subsequently to Official classification.]

Distance.	From Port Huron, Mich., to—	Classes (rates in cents per 100 pounds).																	
		1.			2.			3.			4.			5.			6.		
		1881.	1887.	1893.	1881.	1887.	1893.	1881.	1887.	1893.	1881.	1887.	1893.	1881.	1887.	1893.	1881.	1887.	1893.
Miles.																			
260	Ainsworth, Ind	52	40	33	42	30	30	36	20	23	25	15	15	21	12	12	19	10	10
260	Kingsbury, Ind	45	40	33	35	30	30	25	20	23	18	15	15	15	12	12	12½	10	10
222	Edwardsburg, Mich	40	40	26½	30	30	24	20	20	18	15	15	13	12½	12	11	10	10	9
204	Wakelee, Mich	41	40	26½	32	30	24	25	23	18	20	18	13	17	15	11	15	12	9
170	Climax, Mich	40	35	25	31	28	22½	25	22	17	20	16	12½	14	12	10½	12	10	9
87	Bancroft, Mich	30	30	18	22	22	16	17	17	13	14	14	10	12	12	8½	10	10	7
72	Otterburn, Mich	26	26	15½	21	21	14	16	16	11½	13	13	9½	11	11	7½	8	8	6½
18	Emmet, Mich	18	18	7½	15	15	7½	12	12	7½	10	10	7	8	8	5	6	6	4

TABLE 154.—LOCAL FREIGHT RATES CHARGED FOR VARIOUS DISTANCES BY THE LAKE ERIE AND WESTERN RAILROAD DURING 1886 AND 1893.

[1886, Local classification; 1893, Official classification.]

Distance.	Classes (rates in cents per 100 pounds).											
	1.		2.		3.		4.		5.		6.	
	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.
10 miles	16	10	14	9	12	7	9	5½	7	4	2½	3½
25 miles	19	13	17	12	15	8	11	6	7	5	5	4½
50 miles	27	16½	22	14½	18	10½	15	8	9	6½	7	5½
100 miles	36	21	31	19	26	15	20	11	14	9	9	7½
200 miles	54	31	44	29	36	23	28	15	21	12½	13½	9
300 miles	65	36	55	33	45	24	35	17	26	14	18½	11
400 miles	77	40	67	36	53	25½	41	18	31	15	22	12

TABLE 155.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE CLEVELAND, CINCINNATI, CHICAGO AND ST. LOUIS RAILWAY FROM CINCINNATI TO STATIONS NAMED DURING 1886 AND 1893.

Distance.	From Cincinnati, Ohio, to—	Classes (rates in cents per 100 pounds).											
		1.		2.		3.		4.		5.		6.	
		1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.
Miles.													
22.3	Mands, Ohio	15	7½	12	7½	9	7½	8	7	7	5½	5	4½
48.8	Carrollton, Ohio	20	12	17	11½	12	11	10	9	8	7½	6	6
87.3	Moorefield, Ohio	29	25	24	22	17	20	14	13	11	9	8	8
113.2	Marysfield, Ohio	40	25	30	22	20	20	15	13	12	9	8	8
	White Sulphur, Ohio	41	25	31	22	21	20	16	13	13	9	8	8
146.7	Cardington, Ohio	44	28	35	24	25	21	18	13½	15	10	9	8½
158.5	St. James, Ohio (Iberia)	45	28	36	24	25	21	18	13½	16	10	9	8½

TABLE 156.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE CLEVELAND, CINCINNATI, CHICAGO, AND ST. LOUIS RAILWAY FROM CLEVELAND, OHIO, TO STATIONS NAMED DURING 1886 AND 1893.

Distance.	From Cleveland, Ohio, to—	Classes (rates in cents per 100 pounds).											
		1.		2.		3.		4.		5.		6.	
		1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.
Miles.													
	North Eaton, Ohio	15	7½	11	7½	8	7	7	6½	7	6	5	5
	Rochester, Ohio	19	15½	16	14	11	13	10	10	7	7½	6	6
	Shiloh, Ohio	24	16½	20	14	15	13	13	10	9	7½	7	6
110.6	Agosta, Ohio	38	25	29	22	20	17	15	13	11	9	8	8
150.0	De Graff, Ohio	44	31	35	26	25	22	18	14	15	11	9	9
	Houston, Ohio	45	31	36	26	26	22	19	14	18	11	9	9
215.6	Farmland, Ind	48	33	38	30	30	23	22	15	19	13	11	11
255.0	Pendleton, Ind	50	35	40	32	33	24	24	16	20	13	11	11

TABLE 157.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE OHIO AND MISSISSIPPI RAILWAY FROM CINCINNATI, OHIO, TO STATIONS NAMED DURING YEARS 1876, 1887, AND 1893.

[Governed by Official classification.]

Distance.	From Cincinnati, Ohio, to—	Classes (rates in cents per 100 pounds).																	
		1.			2.			3.			4.			5.			6.		
		1876.	1887.	1893.	1876.	1887.	1893.	1876.	1887.	1893.	1876.	1887.	1893.	1876.	1887.	1893.	1876.	1887.	1893.
Miles.																			
52	Osgood, Ind	20	24	24	18	22	22	15	19	19	13	12½	12½	...	9	9	...	8	8
73	North Vernon, Ind	20	24	24	16	22	22	13	19	19	9	12½	12½	7	9	9	6	8	8
98	Lexington, Ind	43	24	24	35	22	22	30	19	19	25	12½	12½	...	9	9	...	8	8
130	Louisville, Ky	25	25	25	20	22	20	15	20	15	10	13	10	8	9	8	8	8	8
106	Medora, Ind	44	25	25	36	22	22	31	20	20	25	13	13	...	9	9	...	8	8
127	Mitchell, Ind	32	25	25	25	22	22	18	20	20	13	13	13	10	9	9	9	8	8
158	Loogootee, Ind	45	31	31	40	26	26	30	22	22	25	14	14	...	11	11	...	9	9
178	Washington, Ind	55	31	31	45	26	26	37	22	22	28	14	14	22	11	11	18	9	9
193	Vincennes, Ind	40	31	31	30	26	26	20	22	22	15	14	14	13	11	11	10	9	9
223	Olney, Ill	50	33	33	40	30	30	27	23	23	18	15	15	15	13	13	12	10	10
245	Flora, Ill	70	40	40	55	34	34	45	25	25	33	17	17	...	15	15	...	12	12
270	Salem, Ill	73	40	40	58	34	34	48	25	25	34	17	17	...	15	15	...	12	12
293	Carlyle, Ill	74	40	40	59	34	34	49	25	25	35	17	17	...	15	15	...	12	12
316	Lebanon, Ill	75	40	40	60	34	34	50	25	25	35	17	17	...	15	15	...	12	12
341	East St. Louis, Ill	50	40	40	40	34	34	27	25	25	18	17	17	15	15	15	12	12	12

TABLE 158.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE OHIO AND MISSISSIPPI RAILWAY FROM EAST ST. LOUIS, ILL., TO STATIONS NAMED DURING YEARS 1876, 1887, AND 1893.

[Governed by Official classification.]

Distance.	From East St. Louis, Ill., to—	Classes (rates in cents per 100 pounds).																	
		1.			2.			3.			4.			5.			6.		
		1876.	1887.	1893.	1876.	1887.	1893.	1876.	1887.	1893.	1876.	1887.	1893.	1876.	1887.	1893.	1876.	1887.	1893.
Miles.																			
48	Carlyle, Ill	31	21	21	25	19	19	21	17	17	15	11½	11½	12	8	8	...	7	7
96	Flora, Ill	40	24	24	32	22	22	26	19	19	19	12½	12½	16	9	9	...	8	8
118	Olney, Ill	45	25	25	35	22	22	28	20	20	22	13	13	17	9	9	...	8	8
149	Vincennes, Ind	40	31	31	30	26	26	20	22	22	15	14	14	11	11	11	9	9	9
191	Shoals, Ind	59	31	31	49	26	26	40	22	22	30	14	14	...	11	11	...	9	9
214	Mitchell, Ind	50	33	33	40	30	30	30	23	23	20	15	15	15	13	13	13	10	10
266	North Vernon, Ind	50	40	40	40	34	34	30	25	25	20	17	17	15	15	15	13	12	12
289	Osgood, Ind	74	40	40	59	34	34	49	25	25	35	17	17	...	15	15	...	12	12
341	Cincinnati, Ohio	50	40	40	40	34	34	30	25	25	20	17	17	15	15	15	13	12	12
296	Lexington, Ind	74	40	40	59	34	34	49	25	25	35	17	17	...	15	15	...	12	12
336	Louisville, Ky	53	40	40	43	34	34	33	25	25	23	17	17	17	15	15	15	12	12

TABLE 159.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY WABASH RAILROAD FROM CHICAGO TO STATIONS NAMED DURING YEARS 1882, 1887, AND 1893.

[Subject to Western classification.]

Distance.	From Chicago, Ill., to—	Year.	Classes (rates in cents per 100 pounds).								
			1.	2.	3.	4.	5.	A.	B.	C.	D.
Miles.											
549	Belknap, Ia	1882	70	60	50	40	.....	34	29	26	23
		1887	75	60	50	35	30	35	30	25	20
		1893	40	30	22	17	12.5	17	15	12	10
544	Bloomfield, Ia	1882	70	60	50	40	30	34	29	26	23
		1887	75	60	50	35	30	35	30	25	20
		1893	40	30	22	17	12.5	17	15	12	10
617	Burlington Junction, Mo	1882	101	83	65	40	.....	38	38	29	27
		1887	102	85	70	45	40	45	40	35	30
		1895	60	50	35	25	18	25	20	15	14
497	Carrollton, Mo	1882	82	67	50	32	29	32	28	24	22
		1887	85	70	50	35	30	35	30	25	20
		1893	60	50	35	25	18	25	20	15	14
410	Centralia, Mo	1882	73	61	49	28	24	28.5	23.5	21	17.5
		1887	73	61	49	28	28	28.5	23.5	21	17.5
		1893	60	50	35	25	18	24	20	15	12.5
511	Chillicothe, Mo	1882	75	66	48	30	.....	35	29	19	19
		1887	75	65	48	30	30	35	29	19	19
		1893	60	50	35	25	18	25	20	15	14
636	Cain, Ia	1882	102	85	70	45	40	45	40	35	30
		1887	102	85	70	45	40	45	40	35	30
		1893	60	50	35	25	18	25	20	15	14
490	Cunningham, Mo	1882	80	65	50	31	.....	31	28	23	21
		1887	85	70	50	35	30	35	30	25	20
		1893	60	50	35	25	18	25	20	15	14
572	Darlington, Mo	1882	90	75	55	35	30	35	30	25	20
		1887	90	75	55	35	30	32.5	29.5	23	23
		1893	60	50	35	25	18	25	20	15	14
537	Gallatin, Mo	1882	85	70	45	30	30	35	30	25	.....
		1887	90	75	50	35	30	32.5	29.5	23	23
		1893	60	50	35	25	18	25	20	15	14
	Glasgow, Mo	1882	75	62	50	30	30	30	27	24.5	21
		1887	75	62	50	30	30	30	27	24.5	21
		1893	60	50	35	25	18	25	20	15	14
516	Glenwood and Glenwood J	1882	73	58	48	33	28	33	28	23	20
		1887	75	60	50	35	30	35	30	25	20
		1892	40	30	22	17	12.5	17	15	13	10
491	Kirksville, Mo	1882	75	60	50	35	30	25	30	26	20
		1887	75	60	50	35	30	35	30	25	20
		1893	60	50	35	25	18	24	20	15	13
	Lathrop, Mo	1882	85	70	45	30	.....	37.5	30	20	.....
		1887	90	75	50	35	30	32.5	29.5	23	23
		1893	60	50	35	25	18	25	20	15	14
456	Macon, Mo	1882	60	54	38	25	.....	27.5	22.5	15	.....
		1887	60	54	38	25	25	27.5	22.5	15.5	15.5
		1893	60	50	35	25	18	24	20	15	13
671	Malvern, Iowa	1882	104	84	60	45	.....	40	36	31	28
		1887	102	85	70	45	40	45	40	35	30
		1893	60	50	35	25	18	25	20	15	14
604	Maryville, Mo	1882	94	81	65	32	.....	33	33	30	25.75
		1887	102	85	70	45	40	45	40	35	30
		1893	60	50	35	25	18	25	20	15	14
396	Mexico, Mo	1882	70	60	46	25	.....	25	22	19.5	17
		1887	70	60	46	25	25	25	22	19.5	17
		1893	60	50	35	25	18	24	20	15	12.5
434	Moberly, Mo	1882	75	60	50	35	.....	35	30	20	.....
		1887	75	60	45	30	27	30	25	20	18
		1893	60	50	35	25	18	24	20	15	12.5
530	Moulton, Iowa	1882	70	60	50	40	.....	34	29	26	23
		1887	75	60	50	35	30	35	30	25	20
		1893	40	30	22	17	12.5	17	15	12	10
565	Ottumwa, Iowa	1882	70	60	50	29	.....	34	29	24	24
		1887	68	55	40	27.5	22.5	27.5	22.5	20	15
		1893	40	30	22	17	12.5	17	15	12	10
	Plattsburg, Mo	1882	85	70	45	30	.....	35	30	25	.....
		1887	90	75	50	35	30	32.5	29.5	23	23
		1893	60	50	35	25	18	25	20	15	14
616	Roseberry, Mo	1882	101	83	58	44	.....	47	42	35	30
		1887	102	85	70	45	40	45	40	35	30
		1893	60	50	35	25	18	25	20	15	14
318	St. Peters, Mo	1882	62	50	39	25	23	25	22	20	15
		1887	60	50	40	25	20	25	20	17	15
		1893	60	50	35	25	18	24	20	15	12.5
649	Shenandoah, Iowa	1882	102	83	59	44	.....	40	35	30	27
		1887	102	85	70	45	40	45	40	35	30
		1893	60	50	35	25	18	25	20	15	14
537	West Grove, Iowa	1882	70	60	50	40	.....	34	29	26	23
		1887	75	60	50	35	30	35	30	25	20
		1893	40	30	22	17	12.5	17	15	12	10

TABLE 160.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE WABASH RAILROAD FROM TOLEDO, OHIO, TO STATIONS NAMED DURING 1876, 1882, 1887, AND 1893.

[Rates in effect prior to April, 1887, were governed by Middle and Western States classification; subsequent rates by Official classification.]

Distance.	From Toledo, Ohio, to—	Classes (rates in cents per 100 pounds).																							
		1.				2.				3.				4.				5.			6.			A.	B.
		1876.	1882.	1887.	1893.	1876.	1882.	1887.	1893.	1876.	1882.	1887.	1893.	1876.	1882.	1887.	1893.	1882.	1887.	1893.	1882.	1887.	1893.	1876.	1876.
Miles.																									
50	Defiance, Ohio	24	16	16	12	20	13	13	11	16	10	10	10	12	7	7	8	6	6	7½	5	5	6	11½	9½
94	Fort Wayne, Ind	32	20	20	20½	27	15	16	18½	25	12	12	14½	17	10	10	11	8	8	9	7	6	7	15	12½
118	Huntington, Ind	37	24	24	25	32	20	20	22	24	15	15	19	19	11	11	12	9	9	10	8	6	7½	16½	14
137	Wabash, Ind	40	28	28	27	34	23	23	24	27	18	18	19	21	13	13	13	11	10	10	9	9	7½	17½	15½
166	Logansport, Ind	45	28	30	30	38	23	24	27	30	18	17	21	24	13	13	14	11	9	10	9	6	8½	19½	17½
249	Danville, Ill	55	40	59	37	48	30	45	32	28	25	35	25	30	20	25	16	16	18	12½	13	14	12	25	22½
287	Champaign, Ill	..	50	69	38	..	40	47	33	..	30	35	26	..	25	25	18	22	21	14	20	17	13	....	....
285	Tolono, Ill	61	50	63	38	53	40	47	33	41	30	35	26	33	25	25	18	20	18	14	16	15	13	26½	23½
323	Decatur, Ill	66	55	63	39	57	45	47	34	45	35	35	26	36	30	25	18	22	19	15	19	15	13	27½	25
361	Springfield, Ill	71	60	63	40	62	50	47	36	49	40	35	26	40	28	25	18	22½	19	15	20½	15	13	30½	27½
395	Jacksonville, Ill	75	60	63	40	66	50	47	36	52	40	35	27	42	30	25	19	23	19	15	21	15	13	32½	30
461	East Hannibal, Ill	85	..	46	47½	74	..	35	42½	59	..	25	31	48	..	17	22½	..	13	20	....	10	16½	36½	34
433	East St. Louis, Ill	80	50	46	41	70	45	35	37	55	35	25	27	45	23	17	19	19	13	17	17	10	14	35	32½

TABLE 161.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE TERRE HAUTE AND INDIANAPOLIS RAILROAD FROM INDIANAPOLIS TO STATIONS NAMED DURING 1883 AND 1893.

Distance.	From Indianapolis, Ind., to—	Commodities (rates in cents per 100 pounds).											
		Alcohol.				Apples, dried.				Fertilizers.			
		Less than carloads.		Carloads.		Less than carloads.		Carloads.		Less than carloads.		Carloads.	
		1883.	1893.	1883.	1893.	1883.	1893.	1883.	1893.	1883.	1893.	1883.	1893.
Miles.													
38	Greencastle, Ind	19	18	11.2	9.5	19	15	11.2	9.5	14	9.5	5.65	6.5
72	Terre Haute, Ind	25	22	14 4	11.5	25	18	14	11.5	17.5	11.5	7	7
80	Farrington, Ill	25.3	23	14.4	11.5	25.3	19.5	14 4	11.5	18	11.5	7.2	7.5
90	Marshall, Ill	25.9	23	15.2	11.5	25.9	19.5	15.2	11.5	19	11.5	7.55	7.5
108	Casey, Ill	27.1	24	16.64	12	27.1	20	16.64	12	20.8	12	8.2	8
117	Greenup, Ill	27.7	26	17.28	12.5	27.7	21	17.28	12.5	21.6	12.5	8.55	8.5
140	Effingham, Ill	28.9	26	18.56	13	28.9	22	18.56	13	23.2	13	9.2	9
152	Altamont, Ill	29.8	28	19.36	14	29.8	22	19.36	14	24.2	14	9.6	9
171	Vandalia, Ill	31	28.5	20	14	31	22.5	20	14	25	14	10	9.5
185	Smithboro, Ill	31.6	30	20.32	14	31.6	23	20.32	14	25.4	14	10.2	9.5
238	East St. Louis, Ill	34.5	32	22.08	15	34.5	24	22.08	15	27.6	15	11.55	10

Distance.	From Indianapolis, Ind., to—	Commodities (rates in cents per 100 pounds).															
		Glassware.				Horse and mule shoes.				Iron fencing.				Oranges and lemons.			
		Less than carloads.		Carloads.		Less than carloads.		Carloads.		Less than carloads.		Carloads.		Less than carloads.		Carloads.	
		1883.	1893.	1883.	1893.	1883.	1893.	1883.	1893.	1883.	1893.	1883.	1893.	1883.	1893.	1883.	1893.
Miles.																	
38	Greencastle, Ind	23	18	14	15	14	9.5	7.35	7.5	23	15	9.45	7.5	28	18	19	15
72	Terre Haute, Ind	30	22	17.5	18	17.5	11.5	8.8	9	30	18	11.75	9	36	22	25	18
80	Farrington, Ill	31	23	18	19.5	18	11.5	9	9	31	19.5	12	9	37	23	25.3	19.5
90	Marshall, Ill	32	23	19	19.5	19	11.5	9.4	9	32	19.5	12.4	9	39	23	25.9	19.5
108	Casey, Ill	34	24	20.8	20	20.8	12	10.25	10	34	20	13.2	10	43	24	27.1	20
117	Greenup, Ill	35	26	21.6	21	21.6	12.5	10.7	10.5	35	21	13.6	10.5	45	26	27.7	21
140	Effingham, Ill	37	26	23.2	22	23.2	13	11.55	11	37	22	14.4	11	47	26	28.9	22
152	Altamont, Ill	38.4	28	24.2	22	24.2	14	12	11	38.4	22	14.8	11	48.5	28	29.8	22
171	Vandalia, Ill	40	28.5	25	22.5	25	14	12.6	11.5	40	22.5	15.2	11.5	50.2	28.5	31	22.5
185	Smithboro, Ill	40.8	30	25.4	23	25.4	14	12.9	11.5	40.8	23	15.4	11.5	51	30	31.6	23
238	East St. Louis, Ill	44.4	32	27.6	24	27.6	15	14.5	12	44.4	24	16.6	12	54.8	32	34.5	24

TABLE 161.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE TERRE HAUTE AND INDIANAPOLIS RAILROAD, ETC.—Continued.

Distance.	From Indianapolis, Ind., to—	Commodities (rates in cents per 100 pounds).															
		Poultry, dressed.				Seeds, garden.				Binding twine.				Zinc, pigs and slabs.			
		Less than carloads.		Carloads.		Less than carloads.		Carloads.		Less than carloads.		Carloads.		Less than carloads.		Carloads.	
		1883	1893	1883	1893	1883	1893	1883	1893	1883	1893	1883	1893	1883	1893	1883	1893
Miles.																	
38	Greencastle, Ind	28	20	14	20	28	18	14	7.5	23	15	14	9.5	14	9.5	11.2	6.5
72	Terre Haute, Ind	36	24.5	17.5	24.5	36	22	17.5	9	30	18	17.5	11.5	17.5	11.5	14	7
80	Farrington, Ill	37	25	18	25	37	23	18	9	31	19.5	18	11.5	18	11.5	14.4	7.5
90	Marshall, Ill	39	25	19	25	39	23	19	9	32	19.5	19	11.5	19	11.5	15.2	7.5
108	Casey, Ill	43	26	20.8	26	43	24	20.8	10	34	20	20.8	12	20.8	12	16.64	8
117	Greenup, Ill	45	29	21.6	29	45	26	21.6	10.5	35	21	21.6	12.5	21.6	12.5	17.28	8.5
140	Effingham, Ill	47	29	23.2	29	47	26	23.2	11	37	22	23.2	13	23.2	13	18.56	9
152	Altamont, Ill	48.5	31	24.2	31	48.5	28	24.2	11	38.4	22	24.2	14	24.2	14	19.36	9
171	Vandalia, Ill	50.2	31	25	31	50.2	28.5	25	11.5	40	22.5	25	14	25	14	20	9.5
185	Smithboro, Ill	51	33	25.4	33	51	30	25.4	11.5	40.8	23	25.4	14	25.4	14	20.32	9.5
288	East St. Louis, Ill	54.8	35	27.6	35	54.8	32	27.6	12	44.4	24	27.6	15	27.6	15	22.08	10

TABLE 162.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE CENTRAL IOWA RAILWAY FROM PEORIA, ILL., TO POINTS NAMED DURING YEARS 1886 AND 1893.

[Governed by Western classification.]

Distance.	From Peoria, Ill., to—	Classes (rates in cents per 100 pounds).																	
		1.		2.		3.		4.		5.		A.		B.		C.		D.		E.	
		1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.
Miles.																					
335	Mason City, Iowa	78	50	63	40	50	35	36	22	27½	17	31	21	28	16	21	14½	18	11½	....	11
247	Marshalltown, Iowa	66	50	53	40	40	33	26	22	23½	17	26	21	23½	16	21	13½	16	11½	....	10
190	Oskaloosa, Iowa	61	50	48	40	35	33	22½	22	21	17	23½	21	21	16	16	13½	11	11½	....	10
109	Morning Sun, Iowa	44	37	37	28	31	24	23	17	21	12	22½	11	18½	10	15	9½	11	8½	....	7

TABLE 163.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE BURLINGTON, CEDAR RAPIDS AND NORTHERN RAILROAD BETWEEN CHICAGO, ILL. AND STATIONS NAMED, DURING 1886 AND 1893.

[Subject to Western classification.]

Distance.	From Chicago, Ill., to—	Year.	Classes (rates in cents per 100 pounds).									
			1.	2.	3.	4.	5.	A.	B.	C.	D.	E.
Miles.												
215	Latty, Iowa	1886	50	40	34	25	24	24	20	17	15	....
		1893	47	38	29	20	15	15	14	12	11	9
229	Morning Sun, Iowa	1886	53	44	36	27	25	26	22	19	15	....
		1893	47	38	29	20	15	15	14	12	11	9
261	Nichols, Iowa	1886	65	54	44	29	26	27	23	20	16	....
		1893	53	44	32	22	16	19	16	13	12	10
281	Elmira, Iowa	1886	73	58	48	36	27	32	27	23	20	....
		1893	55	45	33	23	16	20	16	14	13	11
295	Ely, Iowa	1886	74	60	50	37	27	32	27	25	20	....
		1893	55	45	33	23	18	23	18	15	13	11
327	Vinton, Iowa	1886	68	57	45	32	26	31	27	21	20	....
		1893	57	47	35	24	18	24	18	15	13	11
357	Waterloo, Iowa	1886	72	59	48	33	28	32	28	22	20	....
		1893	60	50	38	25	20	25	20	16	14	12
362	Cedar Falls, Iowa	1886	73	60	48	33	28	33	28	22	20	....
		1893	60	50	38	25	20	25	20	16	14	12
385	Clarksville, Iowa	1886	76	62	49	35	29	34	29	23	20	....
		1893	60	50	38	25	20	25	20	16	14	12
417	Nora Junction, Iowa	1886	82	68	55	40	31½	38	32	25	23	....
		1893	60	50	40	25	20	25	20	17	14	13
431	Manly Junction, Iowa	1886	84	72	57	41	31½	40	32	25	23	....
		1893	60	50	40	25	20	25	20	17	14	13
447	Gordonsville, Minn	1886	93	78	64	44	34	40	33	25	23	....
		1893	60	50	40	25	20	25	20	17	14	13
459	Albert Lea, Minn	1886	95	80	65	44	35	38	33	25	22½	....
		1893	60	50	40	25	20	25	20	17	14	13

TABLE 164.—COMPARISON OF LOCAL FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC BY THE CHICAGO, MILWAUKEE AND ST. PAUL RAILWAY FROM CHICAGO, ILL., TO STATIONS NAMED DURING YEARS 1883 AND 1893.

[Governed by Western classification.]

Distance.	From Chicago, Ill., to—	Year.	Classes (rates in cents per 100 pounds).									
			1.	2.	3.	4.	5.	A.	B.	C.	D.	E.
Miles.												
228	Marion, Iowa	1883	70	55	45	35	27½	32½	27½	25	20	....
		1893	55	45	33	23	18	23	18	15	13	11
282	Tama, Iowa	1883	75	60	45	35	30	35	30	25	20	....
		1893	58	48	37	24	19	24	18	15	13	12
309	Melbourne, Iowa	1883	75	60	45	35	30	35	30	25	20	....
		1893	62	52	38	26	21	26	21	17	15	13
365	Perry, Iowa	1883	77	62	47	37	32	37	32	26	20	....
		1893	66	56	39	28	23	28	23	19	16	14
417	Manning, Iowa	1883	87	70	56	40	35	40	35	30	24	....
		1893	75	60	42	30	25	30	25	20	17½	16
487	Council Bluffs, Iowa	1883	90	75	50	32	28	37½	32	23	23	....
		1893	75	60	42	30	25	30	25	20	17½	16

TABLE 165.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE CHICAGO AND GREAT WESTERN RAILWAY BETWEEN CHICAGO, ILL., AND POINTS NAMED DURING 1886 AND 1893.

[1886 Joint Western classification, 1893 Western classification.]

Distance.	Between Chicago, Ill., and—	Year.	Classes (rates in cents per 100 pounds).									
			1.	2.	3.	4.	5.	A.	B.	C.	D.	E.
Miles.												
345	Hayfield, Minn	1886	75	60	45	33	25	30	25	22	18	.....
		1893	60	50	40	25	20	25	20	17	14	13
354	Dodge City, Minn	1886	70	55	40	30	23	28	24	21	17½	.....
		1893	60	50	40	25	20	35	20	17	14	13
363	West Concord, Minn	1886	70	55	40	30	23	27	23	20	17½	.....
		1893	60	50	40	25	20	25	20	17	14	13
373	Kenyon, Minn	1886	70	55	40	30	23	27	23	20	17½	.....
		1893	60	50	40	25	20	25	20	17	14	13
379	Nerstrand, Minn	1886	70	55	40	30	23	27	23	20	17½	.....
		1893	60	50	40	25	20	25	20	17	14	13
393	Randolph, Minn	1886	70	55	40	30	23	27	23	20	17½	.....
		1893	60	50	40	25	20	25	20	17	14	13
399	Hampton, Minn	1886	71	53	36	29	23	27	23	20	16	.....
		1893	60	50	40	25	20	25	20	17	14	13
403	Empire, Minn	1886	71	53	36	29	23	27	23	20	16	.....
		1893	60	50	40	25	20	25	20	17	14	13
410	Rich Valley, Minn	1886	67	50	33	26	21	25	20	18	15	.....
		1893	60	50	40	25	20	25	20	17	14	13
418	Invergrove, Minn	1886	64	46	30	24	20	25	20	18	15	.....
		1893	60	50	40	25	20	25	20	17	14	13
373	Lyle, Minn	1886	82	70	54	40	31	36	30	26	20	.....
		1893	60	50	40	25	20	25	20	17	14	13
368	Varco, Minn	1886	82	75	54	40	30	36	30	25	20	.....
		1893	60	50	40	25	20	25	20	17	14	13
362	Austin, Minn	1886	80	65	50	35	27	30	28	25	20	.....
		1893	60	50	40	25	20	25	20	17	14	13
355	Red Rock, Minn	1886	80	65	50	35	27	30	22	25	20	.....
		1893	60	50	40	25	20	25	20	17	14	13
350	Waltham, Minn	1886	75	60	45	33	25	30	25	22	18	.....
		1893	60	50	40	25	20	25	20	17	14	13

TABLE 166.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE WISCONSIN CENTRAL RAILROAD BETWEEN CHICAGO AND POINTS NAMED DURING 1886 AND 1893.

[Subject to Western classification.]

Distance.	Between Chicago, Ill., and—	Classes (rates in cents per 100 pounds).																											
		1.		2.		3.		4.		5.		A.		B.		C.		Salt.		Cement, stucco, and plaster.		Lumber, lath, and shingles.		Cattle.		Hogs and sheep.	
		1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.		
Miles.																													
86	Mukwonago, Wis.	28	25	24	20	18	15	14	12	10	8	10	10	8½	7	7½	6	8½	5	8½	5	7	5	8½	7	8½	10		
221	Waupaca, Wis.	59	50	51	42	43	33	32	23	25	18	23½	23	19	18	18	15	13½	10	13½	10	15½	12	16½	14½	16½	19		
250	Stevens Point, Wis	63	50	55	42	44	33	34	23	25	18	26½	23	21½	18	19	15	15	10	15	10	16	12	20	14½	20	25		
281	Marshfield, Wis.	72	58	62	48	54	37	41	23	30	18	31½	23	24½	18	22	16	18	10	18	10	20½	12	24	23	24	25		
317	Medford, Wis	79	60	67	50	58	40	45	25	33	20	35½	25	28	20	23½	17	20½	12½	20½	12½	22½	13	27½	25	27½	27½		
358	Phillips, Wis	86	62	74	52	63	42	50	26	40	20	38	26	31½	20	25½	17	23½	15	23½	12½	24½	13½	31	27½	31	31½		
402	Glenwood, Wis	80	60	70	50	60	40	45	25	30	20	35	25	30	20	25	17	23½	12½	23½	10	24	14	30	25	30	32½		

TABLE 167.—COMPARISON OF CLASS RATES FROM MILWAUKEE, WIS., TO LOCAL STATIONS ON THE MILWAUKEE AND NORTHERN RAILROAD DURING 1882 AND 1893.

[Subject to Western classification.]

Distance.	From Milwaukee, Wis., to—	Classes (rates in cents per 100 pounds).																			
		1.		2.		3.		4.		5.		A.		B.		C.		D.		E.	
		1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.
Miles.																					
18	Thiensville, Wis	12	12	11	10	9	9	8	8	6	6	5	5	3½	4	3	3½	...	3	...	3
25	Grafton, Wis	15	15	13	13	11	11	9	9	7	7	6	6	5	5	4½	4½	...	4	...	3
36	Fredonia, Wis	18	18	13	16	13	13	11	11	9	9	7½	7½	6	6	5	5	...	4½	...	4
55	Plymouth, Wis	22	22	20	17½	17	15	13	13	11	10	10	10	8	8	7	7	...	6	...	5
68	Kiel, Wis	28	28	25	22½	20	20	15	16	12	11½	11	11½	9	9	8	8	...	7	...	6
77	Hayton, Wis	32	32	27	27	22	22	17	16	14	12½	12½	14½	10	10	9½	9½	...	8	...	6
86	Hilbert, Wis	32	33	27	28	22	23	17	16	14	12½	14	14	11	11	9½	9½	...	8	...	6
106	Appleton, Wis	35	35	30	30	24	24	20	16	16	12½	16	14	12	12	10	9½	...	8	...	6
99	Greenleaf, Wis	35	35	30	30	24	24	20	16	16	12½	16	14	12	12	10	9½	...	8	...	6
124	Tremble, Wis	45	37	37	32	30	25	26	18	21	13½	21	15	16	14	14½	12	...	9	...	7
139	Stiles, Wis	53	40	43	33	35	25	29	20	23	15	25	17½	18	15	16	12½	...	10	...	8

TABLE 168.—COMPARISON OF CLASS RATES FROM CHICAGO, ILL., TO LOCAL STATIONS ON THE MILWAUKEE AND NORTHERN RAILROAD DURING 1882 AND 1893.

[Subject to Western classification.]

Distance.	From Chicago, Ill., to—	Classes (rates in cents per 100 pounds).																			
		1.		2.		3.		4.		5.		A.		B.		C.		D.		E.	
		1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.	1882.	1893.
Miles.																					
103	Thiensville, Wis	27	27	23	23	19	19	15	15	12	12	10	11	8½	8½	8	8	...	7½	...	6
110	Grafton, Wis	30	30	25	25	21	21	16	16	13	12½	11	12	9½	9½	9	9	...	8	...	6
121	Fredonia, Wis	33	33	28	27	23	23	18	18	15	12½	12½	12½	11	11	10	10	...	9	...	7
140	Plymouth, Wis	37	37	30	30	25	25	20	20	16	12½	14	14	12	12	11	11	...	10	...	8
153	Kiel, Wis	40	40	32	32	27	27	22	20	18	13	15½	16	13	13	12½	12½	...	10	...	8
162	Hayton, Wis	43	43	36	36	29	29	24	20	19	14	17	17½	14	14	13½	12½	...	10	...	8
171	Hilbert, Wis	43	43	36	36	29	29	24	20	19	15	18	17½	15	15	13½	12½	...	10	...	8
191	Appleton, Wis	43	43	36	36	29	29	24	20	19	15	20	17½	16	15	14	12½	...	10	...	8
184	Greenleaf, Wis	43	43	36	36	29	29	24	20	19	15	20	17½	16	15	14	12½	...	10	...	8
209	Tremble, Wis	48	43	39	36	33	29	27	22	22	15	23½	18	19½	15½	17	14	...	11	...	8½
224	Stiles, Wis	53	43	43	36	35	29	29	23	23	17	26	20	21½	17	19	15	...	12	...	11

TABLE 169.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE MINNEAPOLIS, ST. PAUL AND SAULT STE. MARIE RAILWAY DURING 1886 AND 1893.

[1886, Local classification. 1893, Western classification.]

Miles.		Classes (rates in cents per 100 pounds).																			
		1.		2.		3.		4.		5.		A.		B.		C.		D.		E.	
		1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.
	From Minneapolis, Minn., to—																				
82.5	Paynesville, Minn	58	45	47	38	37	29	30	23	...	18	...	18	...	16	...	14	...	11	...	9
120.4	Glenwood, Minn	62	52	54	44	44	34	36	26	...	21	...	21	...	18	...	16	...	13	...	10
	From St. Paul, Minn., to—																				
217	Rhinelander, Wis	77	52	66	43	55	33	45	21	35	15	...	21	...	15	...	13	...	11	...	10

TABLE 170.—RATES CHARGED FOR THE TRANSPORTATION OF WHEAT, FLOUR, MILL STUFFS, CORN, AND OATS FROM POINTS ON THE NORTHERN PACIFIC RAILROAD TO ST. PAUL, AND DULUTH, MINN., FROM AUGUST 5, 1881, TO THE PRESENT TIME.

Distance to St. Paul.	To St. Paul and Duluth from—	Rates in cents per 100 pounds, carloads.												
		Aug. 5, 1881.	Sept. 1, 1882.	Aug. 24, 1883.	Aug. 15, 1884.	Aug. 5, 1885.	Apr. 1, 1886.	Aug. 1, 1886.	Jany. 15, 1887.	Apr. 5, 1887.	Aug. 25, 1887.	Sept. 20, 1888.	Oct. 22, 1888.	Aug. 26, 1890.	Sept. 16, 1893.
Miles.															
	Fergus Falls, Minn	25	23	23	21	21	20	17	17	16½	15	15	15	15	15
251	Fargo, N. Dak	25	25	25	23	23	23	20	20	20	18	18	16	16	15½
344	Jamestown, N. Dak	30	30	30	28	27	25	24	24	24	22	22	22	22	20
445	Bismarck, N. Dak	33	33	33	30	30	30	30	30	30	27	27	27	27	24
95	Grand Forks, N. Dak	....	....	....	....	....	....	....	....	21	21	19	19	18	17
189	Pembina, N. Dak	....	....	....	....	....	....	....	....	....	....	....	21	19	19	18

TABLE 171.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE NORTHERN PACIFIC RAILROAD BETWEEN THE POINTS NAMED DURING 1886 AND 1893.

Distance from St. Paul.	Between St. Paul, Minneapolis, or Duluth and—	Classes (rates in cents per 100 pounds).																		
		1886, Northern classification.									1893, Western classification.									
		1.	2.	3.	4.	S. 1.	S. 2.	S. 3.	S. 4.	S. 6.	S. 7.	1.	2.	3.	4.	5.	A.	B.	C.	D.	E.
Miles.																				
138	Brainerd, Minn	70	60	50	40	18	36	54	16	30	15	49	42	32	25	20	20	17	15	12	10
204	Detroit, Minn	95	80	65	56	23	46	69	21	38	21	69	59	45	35	28	28	24	21	17	14
251	Fargo, N. Dak	100	85	70	60	23	46	69	22	42	25	80	68	52	40	32	32	28	24	20	16
344	Jamestown, N. Dak	130	115	100	80	28	56	84	30	50	40	95	81	62	48	38	38	33	29	24	19
445	Bismarck, N. Dak	160	145	130	100	40	80	120	41	65	50	120	102	84	72	60	48	42	36	30	24
560	Dickinson, N. Dak	200	180	159	133	58	116	174	52	84	61	142	1 5	96	85	74	64	55	50	44	36
666	Glendive, Mont	250	220	185	160	80	160	240	60	100	70	155	126	106	94	83	73	63	57	52	42
891	Billings, Mont	295	245	195	170	100	200	300	80	130	95	225	195	158	135	115	100	85	75	65	55

TABLE 172.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE NORTHERN PACIFIC RAILROAD BETWEEN ST. PAUL, MINNEAPOLIS, AND DULUTH, MINN., AND STATIONS NAMED DURING 1887 AND 1893.

[Subject to Western classification.]

Distance from St. Paul.	Between St. Paul, Minneapolis, or Duluth, Minn., and—	Classes (rates in cents per 100 pounds).																			
		1.		2.		3.		4.		5.		A.		B.		C.		D.		E.	
		1887.	1893.	1887.	1893.	1887.	1893.	1887.	1893.	1887.	1893.	1887.	1893.	1887.	1893.	1887.	1893.	1887.	1893.	1887.	1893.
Miles.																					
1,032	Bozeman, Mont	300	250	250	215	200	175	175	145	160	125	150	110	135	92	125	82	100	72	85	62
1,130	Helena, Mont	300	250	250	215	200	175	175	145	160	125	150	110	135	92	125	82	100	72	85	62
1,254	Missoula, Mont	325	260	275	225	225	185	200	155	180	135	170	120	155	102	135	87	110	77	95	67
1,356	Thompson Falls, Mont	380	295	319	253	253	208	220	172	200	152	185	141	168	134	145	114	118	92	78	74
1,427	Hope, Idaho	430	322	362	275	286	230	228	186	212	166	197	163	178	146	155	125	125	102	84	84

TABLE 173.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE UNION PACIFIC RAILWAY BETWEEN OMAHA AND KANSAS CITY AND POINTS NAMED DURING 1883, 1887, AND 1893.

[Subject to Western classification.]

Miles.		Classes (rates in cents per 100 pounds).														
		1.			2.			3.			4.			5.		
		1883.	1887.	1893.	1883.	1887.	1893.	1883.	1887.	1893.	1883.	1887.	1893.	1883.	1887.	1893.
Miles.	Between Omaha, Nebr., and—															
91	Columbus, Nebr	41	41	35	37	37	30	32	32	27	30	30	21	30	30	16
153	Grand Island, Nebr	67	62	51	59	54	45½	51	46	38	45	40	30	45	40	26
196	Kearney, Nebr	72	72	60	64	64	56	56	56	47	50	50	40	50	50	34
569	Denver, Colo	240	210	125	200	170	95	175	140	80	135	115	65	125	100	50
720	Leadville, Colo	395	350	235	345	245	190	310	255	160	255	215	140	225	185	110
1,428	Butte, Mont	300	300	250	250	250	215	200	200	175	175	175	145	....	160	125
1,165	Pocatello, Idaho	340	317	250	305	264	215	265	211	175	225	164	145	220	158	125
	Between Kansas City, Mo., and—															
139	Junction City, Kans	55	55	50	50	49	45½	45	43	37	40	36	28	35	32	24
186	Salina, Kans	65	65	56	58	55	50	50	50	42½	45	43	34	42	38	29
420	Wallace, Kans	126	92	89	114	84	80	101	77	72	86	71	60	84	66	54
639	Denver, Colo	210	210	125	200	170	95	175	140	80	135	115	65	125	100	50
790	Leadville, Colo	395	350	235	345	245	190	310	255	160	255	215	140	225	185	110
746	Cheyenne, Wyo	200	210	125	170	170	95	155	140	80	135	115	65	125	100	50
938	Rawlins, Wyo	263	257	220	228	218	180	210	200	154	160	155	129	160	150	104
1,656	Butte, Mont	300	300	250	250	250	215	200	200	175	175	175	145	....	160	125
1,259	Ogden, Utah	315	300	250	265	250	215	210	200	175	160	155	145	....	150	125
1,393	Pocatello, Idaho	340	317	250	305	264	215	265	211	175	225	164	145	220	158	125

Distance.		Classes (rates in cents per 100 pounds).														
		Class A.			Class B.			Class C.			Class D.			Class E.		
		1883.	1887.	1893.	1883.	1887.	1893.	1883.	1887.	1893.	1883.	1887.	1893.	1883.	1887.	1893.
Miles.	Between Omaha, Nebr., and—															
91	Columbus, Nebr	22½	22½	14	19½	19½	13	15	15	12	15	15	8	....	....	5½
153	Grand Island, Nebr	35	29½	25	25	20	18	22½	17½	15½	....	17½	11	....	....	7½
196	Kearney, Nebr	32½	32½	27½	22½	22½	19½	20	20	18	20	20	13	....	....	9
569	Denver, Colo	100	100	55	75	75	45	65	65	40	50	50	35	....	....	30
720	Leadville, Colo	195	180	115	160	145	100	118	115	90	103	95	70	....	....	65
1,428	Butte, Mont	150	150	110	135	135	92	125	125	82	125	100	72	....	....	62
1,165	Pocatello, Idaho	245	158	110	175	142	92	150	116	82	125	84	72	....	....	62
	Between Kansas City, Mo., and—															
139	Junction City, Kans	30	28	23	20	19	18	15	15	14	15	15	11	....	....	7½
186	Salina, Kans	35	33	27	22	22	21	18	18	17	18	18	13	....	....	10
420	Wallace, Kans	62	51	47	47	41	39	40	32	30	35	32	23	....	....	19
639	Denver, Colo	100	100	55	75	75	45	65	65	40	50	50	35	....	....	30
790	Leadville, Colo	195	180	115	160	145	100	118	115	90	103	95	70	....	....	65
746	Cheyenne, Wyo	100	100	55	75	75	45	75	65	40	50	50	35	....	....	30
938	Rawlings, Wyo	136	131	104	123	118	84	99	92	69	99	80	60	....	....	48
1,656	Butte, Mont	150	150	110	135	135	92	125	125	82	125	100	72	....	....	62
1,259	Ogden, Utah	180	150	110	145	135	92	115	110	82	83	80	72	....	....	62
1,393	Pocatello, Idaho	245	158	110	175	142	92	150	116	82	125	84	72	....	....	63

TABLE 174.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE FREMONT, ELKHORN AND MISSOURI VALLEY RAILROAD BETWEEN OMAHA, NEBR., AND STATIONS NAMED DURING 1886 AND 1893.

[Subject to Western classification.]

Distance.	Between Omaha, Nebr., and—	Year.	Classes (rates in cents per 100 pounds).									
			1.	2.	3.	4.	5.	A.	B.	C.	D.	E.
Miles.												
46	Kennard, Nebr.	1886	28	26	23	20	20	15	14	13	11	.....
		1893	26	22	19	17	14	12	10	8	6	4
73	Nickerson, Nebr	1886	34	27	25	23	20	18	15	13	12	.....
		1893	29	26	22	17	13	13	11	9	7	4
100	West Point, Nebr.	1886	55	48	41	36	36	28	24	22	19	.....
		1893	37	32	27	23	17	17	14	12	8	5
133	Stanton, Nebr.	1886	65	55	48	40	38	28	25	22	19	.....
		1893	45	39	31	23	18	19	15	13	9	7½
155	Battle Creek, Nebr.	1886	65	55	48	40	38	29	26	22	19	.....
		1893	48	42	32	24	19	20	15	13	10	7
219	O'Neill, Nebr	1886	84	71	55	50	46	43	38	32	26	.....
		1893	63	53	44	36	28	32	25	20	15	11½
277	Long Pine, Nebr.	1886	100	80	70	60	55	51	42	37	29	.....
		1893	76	65	58	48	43	39	31	25	18	12½
333	Valentine, Nebr.	1886	124	104	86	67	62	59	49	40	33	.....
		1893	84	76	66	55	51	44	36	28	22	15
438	Rushville, Nebr.	1886	148	136	114	94	89	74	64	50	42	.....
		1893	99	91	81	69	63	56	43	36	28	20
470	Chadron, Nebr.	1886	158	145	126	103	98	80	71	58	48	.....
		1893	110	99	89	75	69	61	46	38	36	21½

TABLE 175.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE ATCHISON, TOPEKA AND SANTA FE RAILROAD FROM KANSAS CITY, ST. LOUIS, AND CHICAGO TO STATIONS NAMED DURING 1886 AND 1893.

[Subject to Western classification.]

To—	From—	Distance.	Classes (rates in cents per 100 pounds).																			
			1.		2.		3.		4.		5.		A.		B.		C.		D.		E.	
			1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.
		Miles.																				
Topeka, Kans.	Kansas City, Mo.	66	30	29	25	24	20	19	15	15	12	12	12	12	11	10	9	8	9	7	.....	5½
	St. Louis, Mo	349	100	84	80	64	60	51	45	40	37	32	37	34½	33	27½	27	23	27	19½	.....	16½
	Chicago, Ill	524	120	104	100	84	70	61	50	45	42	37	44½	42	40½	35	32	28	32	24½	.....	21½
Strong City, Kans.	Kansas City, Mo.	134	58	51	48	43	43	36	35	28	32	24	28	23	19½	18	15	15	15	11	.....	7½
	St. Louis, Mo	417	128	106	103	83	83	68	65	53	57	44	53	45½	41½	35½	33	30	33	22½	.....	18½
	Chicago, Ill	592	148	126	123	103	93	78	70	58	62	49	60½	53	49	43	38	35	38	28½	.....	23
Florence, Kans	Kansas City, Mo.	159	61	52	51	47	46	40	39	32	35	27½	31	26	21	19	17	16	17	12	.....	8½
	St. Louis, Mo	442	131	107	106	87	86	72	69	57	60	47½	56	48½	43	36½	35	31	35	24½	.....	19½
	Chicago, Ill	617	151	127	126	107	96	82	74	62	65	52½	63½	56	50½	44	40	36	40	29½	.....	24½
Newton, Kans	Kansas City, Mo.	187	65	58	55	52	50	45	43	36	38	31	38	30	23	22	18	18	18	14	.....	10½
	St. Louis, Mo	470	135	113	110	92	90	77	73	61	63	51	58	52	45	39½	36	33	36	26½	.....	21½
	Chicago, Ill	645	155	133	130	112	100	87	78	66	68	56	65½	59½	52½	47	41	38	41	31½	.....	26½
Wichita, Kans	Kansas City, Mo.	214	73	66	64	58	58	50	49	41	43	36	38	32½	25	24	21	20	21	16	.....	12
	St. Louis, Mo	497	143	115	119	93	98	78	79	62½	68	53	63	52	47	39½	39	33	39	27	.....	22
	Chicago, Ill	672	163	135	139	113	108	88	84	67½	73	58	70½	59½	54½	47	44	38	44	32	.....	27
Hutchinson, Kans	Kansas City, Mo.	220	73	66	64	58	58	50	49	41	43	36	37	32½	24½	24	21	20	21	16	.....	12
	St. Louis, Mo	503	143	115	119	93	98	78	79	62½	68	53	62	52	46½	39½	39	33	39	27	.....	22
	Chicago, Ill	678	163	135	139	113	108	88	84	67½	73	58	69½	59½	54	47	44	38	44	32	.....	27
Great Bend, Kans	Kansas City, Mo.	269	80	66	70	58	62	50	55	41	48	36	40	32½	25½	24	22	21	22	16	.....	12
	St. Louis, Mo	552	150	121	125	98	102	82	85	66	73	56	65	55	47½	41½	40	36	40	28½	.....	23
	Chicago, Ill	727	170	141	145	118	112	92	90	71	78	61	72½	62½	55	49	45	41	45	33½	.....	28
Kinsley, Kans	Kansas City, Mo.	304	88	78	78	71	70	63	63	55	55	48	46	40	31	28	26	23	26	20	.....	16
	St. Louis, Mo	587	158	133	133	111	110	95	93	80	80	68	71	62½	53	45½	44	38	44	32½	.....	27
	Chicago, Ill	762	178	153	153	131	120	105	98	85	85	73	78½	70	60½	53	49	43	49	37½	.....	32
Dodge City, Kans	Kansas City, Mo.	341	92	87	82	78	74	71	67	60	62	55	49	46	36	32	30	27	30	23	.....	18
	St. Louis, Mo	624	162	142	137	118	114	103	97	85	87	70	72	68½	58	49½	48	42	48	35½	.....	29
	Chicago, Ill	799	182	162	157	138	124	113	102	90	92	75	81½	76	65½	57	53	47	53	40½	.....	34
Garden City, Kans	Kansas City, Mo.	390	100	94	90	84	80	76	75	65	70	59	55	51	43	37	33	30	33	26	.....	19
	St. Louis, Mo	673	170	149	145	124	120	108	105	90	95	70	80	73½	65	54½	51	45	51	38½	.....	30
	Chicago, Ill	848	190	169	165	144	130	118	110	95	100	75	87½	81	72½	62	56	50	56	43½	.....	35
Coolidge, Kans	Kansas City, Mo.	457	131	94	115	84	98	77	85	65	78	59	66	51	52	41	41	32	41	26	.....	19
	St. Louis, Mo	740	201	149	170	124	138	109	115	90	103	70	91	73½	74	58½	59	47	59	38½	.....	30
	Chicago, Ill	915	221	169	190	144	148	119	120	95	108	75	98½	81	81½	66	64	52	64	43½	.....	35
Las Animas, Kans	Kansas City, Mo.	524	172	145	149	117	126	104	103	83	93	73	85	71	63	59	52	44	52	36	.....	29
	St. Louis, Mo	807	242	180	204	135	166	112	133	90	118	70	110	77½	85	62½	70	55	70	47½	.....	40
	Chicago, Ill	982	262	200	224	156	176	122	138	95	123	75	117½	85	92½	70	75	60	75	52½	.....	45

TABLE 175.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE ATCHISON, TOPEKA AND SANTA FE RAILROAD, ETC.—Continued.

To—	From—	Distance.	Classes (rates in cents per 100 pounds).																	
			1.		2.		3.		4.		5.		A.		B.		C.		D.		E.	
			1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.
		Miles.																				
Colorado common points.	Kansas City, Mo.	.....	210	125	170	95	140	80	115	65	100	50	100	55	75	45	65	40	50	35	.....	30
	St. Louis, Mo.	.....	280	180	225	135	180	112	145	90	125	70	125	77½	97	62½	83	55	68	47½	.....	41
	Chicago, Ill.	.....	300	200	245	155	190	122	150	95	130	75	132½	85	104½	70	88	60	73	52½	.....	46
Utah common points	Kansas City, Mo.	.....	300	250	250	215	200	175	155	145	150	125	150	110	135	92	110	82	80	72	.....	62
	St. Louis, Mo.	.....	370	305	305	255	240	207	185	170	175	145	175	132½	157	109½	128	97	98	84½	.....	73
	Chicago, Ill.	.....	390	325	325	275	250	217	190	175	180	150	182½	140	164½	117	133	102	103	89½	.....	78
Raton, N. Mex.	Kansas City, Mo.	647	235	180	195	140	165	120	135	95	120	81	115	85	90	70	70	54	65	49	.....	44
	St. Louis, Mo.	930	305	212	250	180	205	152	165	120	145	101	140	107½	108	87½	88	69	83	61½	.....	55
	Chicago, Ill.	1,105	325	232	270	200	215	162	170	125	150	106	147½	115	115½	95	93	74	88	66½	.....	60
Dorsey, N. Mex.	Kansas City, Mo.	664	243	188	205	148	175	127	143	102	127	87	121	92	95	75	73	59	68	50	.....	45
	St. Louis, Mo.	947	313	212	260	188	215	159	173	127	152	107	146	114½	118	92½	91	74	86	62½	.....	56
	Chicago, Ill.	1,122	333	232	287	208	225	169	178	132	157	112	153½	122	120½	100	96	79	91	67½	.....	61
Springer, N. Mex.	Kansas City, Mo.	688	248	193	210	154	179	131	148	107	131	90	125	94	98	80	75	62	70	53	.....	46
	St. Louis, Mo.	971	318	212	265	194	219	163	178	132	156	110	150	116½	116	97½	93	77	88	65½	....	57
	Chicago, Ill.	1,146	338	232	285	210	229	173	183	137	161	115	157½	124	123½	105	98	82	93	70½	.....	62
Wagon Mound, N. Mex.	Kansas City, Mo.	713	254	193	217	167	185	143	154	115	138	98	129	101	102	85	78	68	78	58	.....	50
	St. Louis, Mo.	996	324	212	272	194	225	175	184	140	163	118	154	123½	120	102½	96	83	91	70½	.....	61
	Chicago, Ill.	1,171	344	232	292	210	235	185	189	145	168	123	161½	131	127½	110	101	88	96	75½	.....	66
Watrous, N. Mex.	Kansas City, Mo.	738	261	193	224	171	192	153	161	123	145	105	134	108	107	89	81	72	76	62	.....	53
	St. Louis, Mo.	1,021	351	212	279	194	232	182	191	148	170	125	159	130½	125	106½	99	87	94	74½	.....	64
	Chicago, Ill.	1,196	351	232	299	210	242	194	196	158	175	130	166½	138	132½	114	104	92	99	79½	.....	69
Las Vegas, N. Mex.	Kansas City, Mo.	758	265	193	229	171	197	158	165	130	150	108	137	113	110	93	83	78	78	63	.....	55
	St. Louis, Mo.	1,041	335	212	284	194	237	182	195	155	175	128	162	135½	128	110½	101	88	96	75½	.....	66
	Chicago, Ill.	1,216	355	232	304	210	247	194	200	160	180	133	169½	143	135½	118	106	93	101	80½	.....	71
Bernal, N. Mex.	Kansas City, Mo.	777	269	193	234	171	202	153	169	137	154	110	139	117	113	95	85	78	80	70	.....	56
	St. Louis, Mo.	1,060	339	212	289	194	242	182	199	162	179	130	164	139½	131	112½	103	93	98	82½	.....	67
	Chicago, Ill.	1,235	359	232	309	210	252	194	204	167	184	135	171½	147	138½	120	108	98	103	87½	.....	72
Glorieta, N. Mex.	Kansas City, Mo.	813	277	193	243	171	210	153	177	137	161	110	144	117	118	99	89	84	84	70	.....	59
	St. Louis, Mo.	1,096	347	212	298	194	250	182	207	162	186	130	169	139½	136	116½	107	99	102	82½	.....	70
	Chicago, Ill.	1,271	367	232	318	210	260	194	212	167	191	135	176½	147	143½	124	112	104	107	87½	.....	75
Santa Fe, N. Mex.	Kansas City, Mo.	841	285	193	248	171	216	153	184	137	166	110	150	117	121	102	93	86	88	70	.....	60
	St. Louis, Mo.	1,124	355	212	303	194	256	182	214	162	191	130	175	139½	139	119½	111	100	106	82½	.....	71
	Chicago, Ill.	1,299	375	232	323	210	266	194	219	167	196	135	182½	147	146½	127	116	106	111	87½	.....	76
Wallace, N. Mex.	Kansas City, Mo.	854	287	193	254	171	220	153	187	137	169	110	151	117	124	103	95	87	90	70	.....	60
	St. Louis, Mo.	1,137	357	212	309	194	260	182	217	162	194	130	176	139½	142	120	113	100	108	82½	.....	71
	Chicago, Ill.	1,312	377	232	329	210	270	194	223	167	199	135	183½	147	149½	128	116	107	113	87½	.....	76
Albuquerque, N. Mex.	Kansas City, Mo.	880	295	193	264	171	228	153	194	137	175	110	155	117	130	105	90	90	94	70	.....	60
	St. Louis, Mo.	1,173	365	212	319	194	268	182	224	162	200	130	180	139½	148	120	117	100	112	82½	.....	71
	Chicago, Ill.	1,348	385	232	339	210	278	194	229	167	206	135	187½	147	155½	128	122	107	117	87½	...	76

San Antonia, N. Mex.	Kansas City, Mo	976	295	198	270	171	235	153	200	187	175	110	155	117	130	105	105	90	100	70	.....	60
	St. Louis, Mo	1,259	365	212	325	194	275	182	230	162	200	130	180	139½	148	120	123	100	118	82½	.....	71
	Chicago, Ill	1,434	385	232	345	210	285	194	235	167	205	185	187½	147	155½	128	128	107	123	87½	.....	76
Deming, N. Mex	Kansas City, Mo	1,121	295	110	270	104	235	102	200	96	175	86	155	89	130	84	105	76	100	65	.....	57
	St. Louis, Mo	1,404	365	129	325	127	275	124	230	116	200	99	180	106½	148	96½	128	86	118	74	.....	65
	Chicago, Ill	1,579	385	149	345	143	285	136	235	121	205	104	187½	114	155½	104	128	91	123	79	.....	70
El Paso, Tex	Kansas City, Mo	1,144	270	145	250	130	220	120	185	112	160	88	145	86	115	78	95	62	85	51	.....	44
	St. Louis, Mo	1,427	315	145	290	130	250	120	210	112	185	88	165	86	135	78	110	62	100	51	.....	44
	Chicago, Ill	1,602	335	165	310	146	260	132	215	122	190	90	172½	95	142½	86	115	69	105	57	.....	49

TABLE 176.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE DENVER AND RIO GRANDE RAILROAD FROM DENVER, COLO., TO STATIONS NAMED DURING 1887 AND 1893.

[Governed by Western classification.]

Distance.	From Denver Colo., to—	Classes (rates in cents per 100 pounds).																	
		1.		2.		3.		4.		5.		A.		B.		C.		D.	
		1887.	1893.	1887.	1893.	1887.	1893.	1887.	1893.	1887.	1893.	1887.	1893.	1887.	1893.	1887.	1893.	1887.	1893.
Miles.																			
277	Leadville, Colo	140	125	125	115	115	105	100	95	85	80	80	75	70	65	50	60	45	40
456	Grand Junction, Colo	260	200	245	175	225	140	195	109	165	105	130	105	125	90	82	77	72	50
502	Durango, Colo	265	185	245	170	230	145	200	120	170	105	130	105	125	75	85	65	75	55
547	Silverton, Colo	300	215	280	195	265	170	230	145	200	130	150	130	145	95	100	70	90	60

TABLE 177.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE ATLANTIC AND PACIFIC RAILROAD BETWEEN ALBUQUERQUE, N. MEX., AND STATIONS NAMED, DURING 1887 AND 1893.

[1887, Local classification; 1893, Western classification.]

Distance.	From Albuquerque N. M., to—	Year.	Classes (rates in cents per 100 pounds).									
			1.	2.	3.	4.	5.	A.	B.	C.	D.	E.
Miles.												
286	Winslow, Aris	1887	195	177	153	138	123	115	90	80		
		1893	157	143	127	106	93	88	63	49	47	44
344	Flagstaff, Aris	1887	220	200	178	157	138	131	100	89		
		1893	168	153	131	109	96	95	66	53	50	47
401	Ash Fork, Aris	1887	242	219	189	168	147	141	107	97		
		1893	175	159	136	112	98	100	72	58	53	49
575	The Needles, Cal	1887	312	277	241	201	172	169	126	112		
		1893	205	182	157	127	106	114	86	70	63	56
735	Daggett, Cal	1887	338	302	262	221	191	187	138	124		
		1893	258	237	181	149	123	130	104	84	74	73
744	Barstow, Cal	1887	340	303	263	222	192	188	139	125		
		1893	260	240	182	150	124	130	105	85	75	74
815	Mojave, Cal	1887	352	312	272	232	201	195	144	120		
		1893	294	254	190	155	130	140	120	95	85	80

TABLE 178.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE ATLANTIC AND PACIFIC RAILROAD BETWEEN MOJAVE, CAL., AND STATIONS NAMED, DURING 1887 AND 1893.

Distance.	From Mojave, Cal., to—	Year.	Classes (rates in cents per 100 pounds.									
			1.	2.	3.	4.	5.	A.	B.	C.	D.	E.
Miles.												
71	Barstow, Cal	1887	54	52	50	49	47	47	35	31		
		1893	54	52	50	49	47	47	35	31	31	24
80	Daggett, Cal	1887	60	58	56	54	52	52	38	34		
		1893	60	58	56	54	52	52	38	34	34	26
240	The Needles, Cal	1887	163	154	132	120	106	101	75	69		
		1893	163	143	113	95	85	85	75	57	52	46
414	Ash Fork, Aris	1887	255	230	199	178	151	146	107	96		
		1893	210	180	151	113	102	107	92	77	66	53
471	Flagstaff, Aris	1887	280	251	217	184	160	154	114	100		
		1893	225	215	170	120	106	113	97	81	68	56
657	Gallup, N. Mex	1887	327	292	254	214	182	177	132	118		
		1893	268	235	184	142	120	128	110	92	79	71
815	Albuquerque, N Mex	1887	352	313	272	232	201	195	144	130		
		1893	294	254	190	155	130	140	120	95	85	81

TABLE 179.—COMPARISON OF FREIGHT RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED TRAFFIC FROM GALVESTON, TEX., TO STATIONS NAMED, VIA INTERNATIONAL AND GREAT NORTHERN RAILROAD AND TEXAS AND PACIFIC RAILWAY DURING 1893 WITH THOSE IN EFFECT DURING 1887.

1887, Joint Texas classification; 1893, Western classification.

Distance.	From Galveston, Tex., to—	Year.	Classes (rates in cents per 100 pounds).									
			1.	2.	3.	4.	5.	A.	B.	C.	D.	E.
Miles.												
594	Sweetwater, Tex.	1887	115	105	91	82	.....	65	59	51	42	30
		1893	110	102	88	76	60	66	57	48	38	29
613	Lorraine, Tex.	1887	115	105	91	82	.....	65	59	51	42	30
		1893	110	102	88	76	60	66	57	48	38	29
660	Big Springs, Tex	1887	135	123	101	92	.....	75	69	56	46	35
		1893	135	120	110	97	77	79	72	56	45	37
720	Odessa, Tex.	1887	167	153	131	122	.....	100	92	75	59	45
		1893	135	120	110	103	77	79	72	56	45	38
793	Pecos City, Tex.	1887	197	180	156	133	.....	111	100	81	67	48
		1893	135	120	110	103	77	79	72	56	45	38
811	Toyah, Tex.	1887	202	185	160	136	.....	113	102	84	70	51
		1893	135	120	110	103	77	79	72	56	45	38
832	San Martine, Tex.	1887	206	189	163	139	.....	116	104	90	72	55
		1893	135	120	110	103	77	79	72	56	45	38
881	Van Horn, Tex.	1887	219	199	173	149	.....	126	109	94	75	60
		1893	135	120	110	103	77	79	72	56	45	38
908	Arispe, Tex.	1887	230	208	182	157	.....	133	113	94	75	62
		1893	135	120	110	103	77	79	72	56	45	38

TABLE 180.—COMPARISON OF FREIGHT RATES CHARGED BY THE TEXAS AND PACIFIC RAILWAY FROM NEW ORLEANS TO STATIONS NAMED, DURING 1887 AND 1893.

[1887, Joint Texas classification; 1893, Western classification.]

Distance.	From New Orleans, La., to—	Year.	Classes (rates in cents per 100 pounds).									
			1.	2.	3.	4.	5.	A.	B.	C.	D.	E.
Miles.												
562	Iona, Tex.	1887	128	112	96	85	.....	71	64	50	49	44
		1893	123	107	92	83	66	69	61	51	40	33
565	Aledo, Tex.	1887	128	112	96	85	.....	71	64	50	49	44
		1893	123	107	92	83	66	69	61	51	40	33
578	Weatherford, Tex.	1887	130	114	98	87	.....	72	65	60	50	45
		1893	123	107	92	83	66	69	61	51	40	33
602	Brazos, Tex.	1887	140	124	108	92	.....	77	70	65	55	47
		1893	123	107	92	83	66	69	61	51	40	33
628	Strawn, Tex.	1887	150	132	115	102	.....	82	75	70	60	47
		1893	123	107	92	83	66	69	61	51	40	33
662	Cisco, Tex.	1887	150	132	115	102	.....	82	75	70	60	47
		1893	123	107	92	83	66	69	61	51	40	33
682	Vigo, Texas.	1887	150	132	115	102	.....	82	75	70	60	47
		1893	123	107	92	83	66	69	61	51	40	33
708	Abilene, Tex.	1887	150	132	115	102	.....	82	75	70	60	47
		1893	123	107	92	83	66	69	61	51	40	33
749	Sweetwater, Tex.	1887	175	153	133	112	.....	92	85	80	65	49
		1893	135	119	102	87	70	76	67	61	50	40
767	Lorraine, Tex.	1887	183	158	137	116	.....	96	89	82	67	50
		1893	135	119	102	87	70	76	67	61	50	40
816	Big Springs, Tex.	1887	200	174	148	127	.....	107	100	88	71	55
		1893	160	137	123	108	85	88	82	69	57	48
837	Marionfeld, Tex.	1887	210	184	158	137	.....	117	105	90	73	58
		1893	160	137	123	112	85	88	83	69	57	49
876	Odessa, Tex.	1887	226	200	174	146	.....	126	112	94	77	62
		1893	160	137	123	112	85	88	82	69	57	49
948	Pecos City, Tex.	1887	250	224	193	162	.....	142	125	100	85	65
		1893	160	137	123	112	85	88	82	69	57	49
968	Toyah, Tex.	1887	255	229	198	167	.....	147	130	103	88	68
		1893	160	137	123	112	85	88	82	69	57	49
988	San Martine, Tex.	1887	260	239	206	175	.....	153	136	109	93	72
		1893	160	137	123	112	85	88	82	69	57	49
1,042	Van Horn, Tex.	1887	260	240	215	180	.....	158	143	113	93	79
		1893	160	137	123	112	85	88	82	69	57	49
1,066	Arispe, Tex.	1887	265	245	215	180	.....	158	143	113	93	82
		1893	160	137	123	112	85	88	82	69	57	49

TABLE 181.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BETWEEN NEW ORLEANS AND STATIONS NAMED, BY THE SOUTHERN PACIFIC COMPANY DURING 1887 AND 1893.

[Subject to Western classification.]

Distance.	Between New Orleans, La., and—	Year.	Classes (rates in cents per 100 pounds).									
			1.	2.	3.	4.	5.	A.	B.	C.	D.	E.
Miles.												
1,217	Rogers, N. Mex	1887	290	265	230	195	170	150	120	95	85	85
		1893	139	124	113	105	79	82	76	63	51	43
1,239	Lanark, N. Mex	1887	290	265	230	195	170	150	120	95	85	85
		1893	155	140	129	121	93	96	87	72	60	52
1,274	Cambray, N. Mex	1887	290	265	230	195	170	150	120	95	85	85
		1893	182	165	152	143	116	119	103	87	75	62
1,300	Deming, N. Mex	1887	290	265	230	195	170	150	120	95	85	85
		1893	202	184	171	151	120	130½	114	94	75	64
1,360	Lordsburg, N. Mex	1887	304	278	242	205	179	158	126	100	90	90
		1893	228	205	185	169	144	150	124	102	90	81
1,394	San Simon, Ariz	1887	313	286	249	211	183	162	130	103	92	92
		1893	254	229	209	192	164	161	128	105	92	92
1,434	Willcox, Ariz	1887	322	295	256	217	189	167	134	106	95	95
		1893	282	257	235	196	174	166	132	108	95	95
1,474	Benson, Ariz	1887	332	304	264	224	195	173	138	110	98	98
		1893	312	283	250	196	174	172	136	113	98	98
1,491	Pantano, Ariz	1887	336	308	268	227	197	175	140	111	100	100
		1893	325	253	250	196	174	174	138	113	100	99
1,519	Tucson, Ariz	1887	343	314	273	231	203	179	143	114	102	102
		1893	325	283	250	196	174	175	141	116	102	99
1,585	Casa Grande, Ariz	1887	359	329	286	242	211	187	149	119	107	107
		1893	325	283	250	196	174	175	147	121	107	99
1,611	Maricopa, Ariz	1887	365	335	291	247	215	190	152	121	109	109
		1893	325	283	250	196	174	175	150	124	109	99

TABLE 182.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE KANSAS CITY, FORT SCOTT AND MEMPHIS RAIL ROAD BETWEEN MEMPHIS, TENN., AND STATIONS NAMED DURING 1886 AND 1893.

[Subject to Western classification.]

Distance.	Between Memphis, Tenn., and—	Year.	Classes (rates in cents per 100 pounds).												
			1.	2.	3.	4.	5.	6.	A.	B.	C.	D.	E.	Packing house products.	Wheat.	Corn.
Miles.																
66	Jonesboro, Ark	1886	55	45	35	30	25	25	20	15	12	12	....	....	....	....
		1893	51	44	34	27	22	....	21	17	13	10	6	10	10	10
172	West Plains, Mo	1886	70	60	50	40	35	35	30	25	20	20	....	....	....	....
		1893	70	60	50	40	30	....	30	24	20	16	11	25	16	15
285	Springfield, Mo	1886	80	70	60	45	40	40	31	26	22	22	....	....	....	....
		1893	70	60	50	40	30	....	30	25	20	17	14	25	16	16
343	Lamar, Mo	1886	100	80	60	45	40	40	37	32	25	25	....	....	....	....
		1893	85	65	50	40	30	....	33	28	22	18	17	25	22	20
388	Fort Scott, Kans	1886	100	80	60	45	40	40	40	35	27	27	....	....	....	....
		1893	85	65	50	40	30	....	33	28	22	18	17	25	22	20
444	Paola, Kans	1886	105	85	65	55	45	45	45	40	27	27	....	....	....	....
		1893	85	65	50	40	30	....	33	28	22	18	17	25	22	22

TABLE 183.—COMPARISON OF RATES CHARGED FOR THE TRANSPORTATION OF CLASSIFIED FREIGHT FROM ST. LOUIS TO POINTS NAMED BY THE MISSOURI PACIFIC RAILWAY DURING 1883 AND 1893.

[Governed by Western classification.]

Distance.	From St. Louis, Mo., to—		Classes (rates in cents per 100 pounds).															
			1.	2.	3.	4.	5.	6.	A.	B.	C.	D.	E.	Wheat, carloads.	Corn, carloads.	Horses and mules.	Cattle.	Hogs.	Sheep.
Miles.																			
188	Sedalia, Mo	1883.	70	55	40	27	25	20	25	22	18	18	18	15		*$37.00	*$35.00	*$30.00	*$28.00
		1893.	50	40	29	22	17	19½	16	13½	11	10	14	11½		*39.00	13½	15	15½
283	Kansas C'y, Mo	1883.	70	55	40	27	23	....	25	22	18	18	....	....	....	....	....	....	....
		1893.	55	40	32	25	20	22½	17½	15	12½	11	18	14		*50.00	20	15	21½
463	Wichita, Kans	1883.	152	127	102	78	68	65	65	49	41	41	41	29		*75.00	*70.00	*67.50	*60.00
		1893.	115	93	78	62½	53	52	39½	33	27	22	25	20		*65.00	28½	35	34
485	Concordia, Ks.	1883.	125	105	85	65	63	60	51½	43	33	33	36.4	27.2		*82.00	*75.00	*61.50	*54.50
		1893.	106	85½	70	55	46	47½	35½	30½	23½	18½	23	18		*60.00	27½	32	32½
414	Auburn, Nebr	1883.	86	67	50	36	31	28	34½	29	24	24	....	....		*67.50	*57.50	*62.00	*45.00
		1893.	55	40	32	25	20	22½	17½	15	12½	11	14	14		*50.00	20	20	22½

* Per car.

TABLE 184.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE LOUISVILLE AND NASHVILLE RAILROAD FROM CINCINNATI TO STATIONS NAMED UPON CLASSES 1, 2, 3, AND 4, AND ALSO UPON FLOUR AND BACON DURING 1886 AND 1893.

[1886 Local classification. 1893 Southern Railway and Steamship Association classification.]

Distance.	From Cincinnati, Ohio, to—	Classes (rates in cents per 100 pounds).								Rates in cents per barrel.				Rates in cents per 100 pounds.	
		1.		2.		3.		4.		Flour, less than car loads.		Flour, car loads		Bacon, any quantity.	
		1886	1893	1886	1893	1886	1893	1886	1893	1886	1893	1886	1893	1886	1893
Miles.															
1	Newport, Ky	5	5	5	5	5	5	5	5	8	6	6	6	5	5
5	Milldale, Ky	9	9	8	8	7	7	6	6	10	8	8	8	6	6
17	Bank Lick, Ky	12	12	11	11	10	10	8	8	14	12	12	12	8	8
40	Glencoe, Ky	25	29	20	25	18	22	15	19	24	22	20	22	15	17
52	Eagle, Ky	30	32	26	27	24	24	20	21	32	24	26	24	20	19
56	Worthville, Ky	30	24	26	20	24	19	20	18	32	24	26	24	20	16
69	Campbellsburg, Ky	35	37	30	32	25	28	22	25	36	28	30	28	22	22
77	Pendleton, Ky	35	41	30	35	25	31	22	28	36	32	30	32	22	24
83	La Grange, Ky	40	41	35	35	30	31	25	28	40	32	34	32	25	24
98	Anchorage, Ky	40	38	35	33	30	29	25	26	40	30	34	30	25	22
106	Crescent Hill, Ky	40	35	35	30	30	26	25	23	40	28	34	28	25	19
110	Louisville, Ky	....	25	....	20	....	15	....	10	....	10	....	8	....	....
116	Strawberry, Ky	37	35	30	30	24	26	17	23	28	28	26	28	17	19
123	Brooks, Ky	40	38	33	33	27	29	19	26	32	30	30	30	19	22
135	Belmont, Ky	47	46	39	40	31	34	23	30	40	36	38	36	23	26
144	Colesburg, Ky	55	52	45	45	36	39	28	34	48	40	44	40	28	30
149	Tunnel Hill, Ky	57	55	48	47	40	41	30	36	50	42	46	42	30	32
152	Elizabethtown, Ky	57	55	48	46	40	37	30	30	50	38	46	32	30	18
160	Glendale, Ky	60	58	50	50	42	44	31	38	52	44	48	44	31	34
183	Munfordville, Ky	72	70	61	61	51	53	37	47	62	48	58	48	37	40
191	Horse Cave, Ky	72	72	63	62	52	54	38	48	62	48	58	48	38	40
200	Glasgow Junction, Ky	74	74	64	64	55	55	40	50	64	50	60	50	40	41
210	Smiths Grove, Ky	76	76	65	65	56	56	40	51	66	50	62	50	40	42
219	Bristow, Ky	78	78	65	67	57	57	40	52	66	52	62	52	40	43
224	Bowling Green, Ky	80	78	65	67	57	58	40	52	66	52	62	52	40	43
232	Rich Pond, Ky	80	78	65	67	57	58	40	52	66	52	62	52	40	43
269	Gallatin, Tenn	80	78	65	67	57	58	40	48	66	52	62	52	40	38
274	Pilot Knob, Tenn	80	76	65	67	57	56	40	46	66	52	62	52	40	36
280	Hendersonville, Tenn	80	68	65	61	57	51	40	42	66	46	62	46	40	32
290	Maplewood, Tenn	80	65	65	58	57	48	40	39	66	44	62	44	40	29
296	Nashville, Tenn	53	53	48	48	39	39	31	31	35	34	35	34	27	23
306	Brentwood, Tenn	72	65	58	58	48	48	36	39	58	44	56	44	36	29
315	Franklin, Tenn	80	67	64	61	53	51	40	42	66	48	64	48	40	32

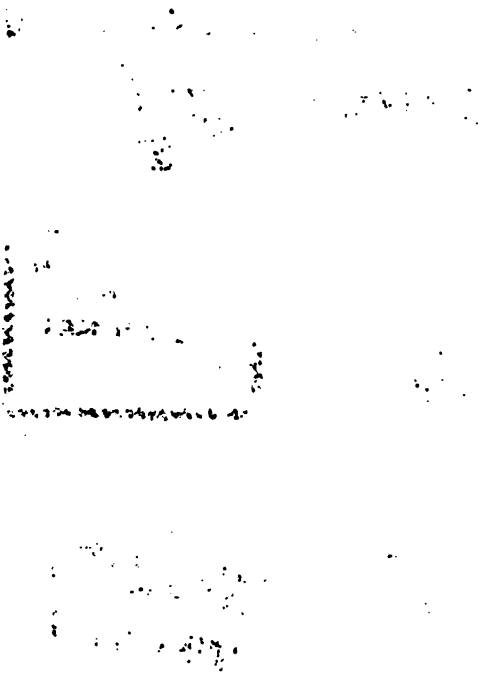
TABLE 184.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE LOUISVILLE AND NASHVILLE RAILROAD, ETC.—Continued.

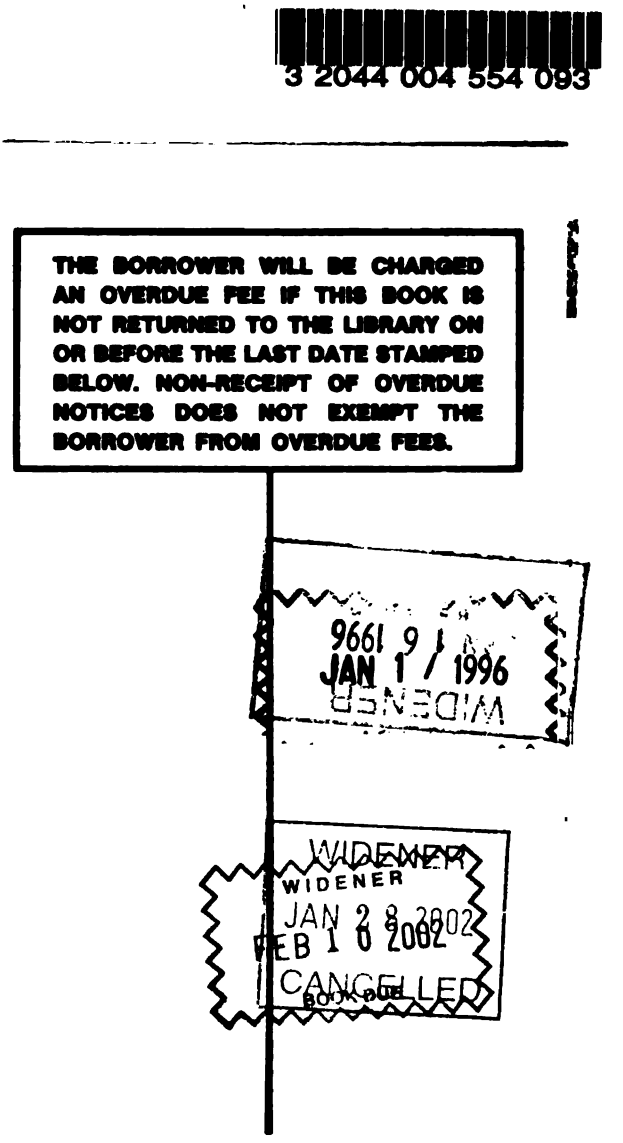
Distance.	From Cincinnati, Ohio, to—	Classes (rates in cents per 100 pounds).								Rates in cents per barrel.				Rates in cents per 100 pounds.	
		1.		2.		3.		4.		Flour, less than carloads.		Flour, carloads.		Bacon, any quantity.	
		1886	1893	1886	1893	1886	1893	1886	1893	1886	1893	1886	1893	1886	1893
Miles.															
342	Columbia, Tenn	97	78	80	68	68	57	50	48	84	58	76	58	40	38
382	Aspen Hill, Tenn	106	99	88	83	70	65	56	60	90	60	84	60	56	45
395	Elkmont, Ala	106	99	88	83	70	65	56	60	90	60	84	60	56	57
414	Harris, Ala	106	97	88	82	70	65	56	60	90	53	84	53	56	50
417	Decatur, Ala	92	85	80	72	72	65	58	54	72	43	72	43	44	34
440	Wilhite, Ala	118	106	95	87	76	68	62	63	96	61	90	61	62	57
470	Blount Springs, Ala	125	108	100	88	80	69	65	64	100	66	100	66	65	47
480	Warrior, Ala	125	108	100	88	80	69	65	64	100	62	100	62	65	46
504	Birmingham, Ala	108	89	102	79	88	68	71	55	56	40	56	40	33	33
510	Oxmoor, Ala	117	89	105	79	85	68	70	55	110	40	106	40	70	33
521	Helena, Ala	125	109	110	90	85	70	70	65	110	58	106	58	70	44
537	Calera, Ala	108	110	102	90	88	70	71	65	56	68	56	68	40	49
548	Jemison, Ala	135	110	110	90	85	70	70	65	110	70	106	70	70	54
568	Verbena, Ala	138	113	120	92	90	72	75	67	116	66	116	66	75	50
588	Elmore, Ala	123	113	115	92	90	72	75	67	116	56	116	56	75	42
600	Montgomery, Ala	108	108	102	102	88	88	71	71	56	40	56	40	33	33
616	Morganville, Ala	128	113	118	102	90	88	75	71	120	58	120	58	75	44
633	Fort Deposit, Ala	138	113	120	102	90	88	75	71	120	66	120	66	75	50
681	Evergreen, Ala	155	116	130	102	100	88	85	71	130	82	130	82	85	57
719	Flomaton, Ala	160	120	135	102	105	88	85	71	134	83	132	83	85	57
755	Bay Minnette, Ala	160	120	135	102	105	88	85	71	134	69	132	69	85	42
775	Magazine Point, Ala	160	110	135	93	105	82	85	62	134	59	132	59	85	37
780	Mobile, Ala	83	98	73	83	63	73	44	54	56	49	56	49	31	33
820	Scranton, Miss	165	124	140	106	110	88	91	71	138	69	138	69	91	42
841	Biloxi, Miss	165	124	140	106	110	88	91	71	138	69	138	69	91	42
862	Pass Christian, Miss	165	124	140	106	110	88	91	71	138	69	138	69	91	42
901	Chef Menteur, Miss	170	118	145	100	115	88	94	67	142	63	142	63	94	36
912	Lee, Miss	170	110	145	93	115	82	94	62	142	59	142	59	94	36
921	New Orleans, La	83	98	73	83	63	73	44	54	44	49	44	49	28	27

TABLE 185.—COMPARISON OF LOCAL FREIGHT RATES CHARGED BY THE SAVANNAH, FLORIDA AND WESTERN RAILWAY BETWEEN SAVANNAH AND STATIONS NAMED DURING 1886 AND 1893.

[Subject to Southern Railway and Steamship Association classification.]

Distance.	From Savannah, Ga., to—	Classes (rates in cents per 100 pounds).																				Rates in cents per barrel.	
		1.		2.		3.		4.		5.		6.		A.		B.		C.		D.		E.		H.		F.	
		1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.	1886.	1893.
Miles.																									
86	Blackshear, Ga	59	45	53	41	46	35	41	32	31	24	24	19	24	19	17	19	11	11	10	10	31	24	40	32	21½	21½
122	Homerville, Ga	70	59	60	57	53	45	43	36	34	29	27	23	27	23	21	23	12½	12½	12	12	34	29	43	36	24	24
130	Dupont, Ga	70	63	60	53	53	47	43	37	34	30	27	24	27	24	21	24	12½	13	12	12½	34	30	43	37	25½	25½
166	Ousley, Ga	80	70	67	59	59	52	46	41	38	33	31	28	31	28	25	28	15½	15½	14½	14½	38	33	46	41	31	31
210	Quitman, Ga	83	73	70	62	60	53	48	42	39	34	33	29	33	29	26	29	15½	15½	14½	14½	39	34	48	42	31	31
224	Boston, Ga	85	75	73	64	61	54	49	43	39	35	34	30	34	30	27	30	16½	16½	15½	15½	39	35	49	43	33	33
236	Thomasville, Ga	85	78	74	68	61	56	49	45	39	36	34	31	34	31	27	31	16½	17	15½	16	39	36	49	45	33	33
279	Faceville, Ga	90	83	84	77	66	61	54	50	42	39	36	33	36	33	30	33	19	19	18	18	42	39	54	50	38	38
294	Chattahoochee, Fla	75	75	60	60	50	50	45	45	40	39	35	33	20	20	30	30	20	19	18	18	40	39	45	45	40	36

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